PROPSPEED ETCHING PRIMER BASE

Veiligheidsinformatieblad
Volgens Verordening (EG) nr. 1907/2006
(gewijzigd bij Verordening (EU) nr. 2020/878)

Datum van herziening 27-03-2024, Versie 8
Taal NL
GENERIEKE EU MSDS - GEEN LANDSPECIFIEKE GEGEVENS

Rubriek 1 - Identificatie van de stof/het mengsel en van het bedrijf/de onderneming

1.1 Productidentificatie

Naam product Propspeed Etching Primer Base
Catalogusnr. Onderdeel van Propspeed-kits: PSLKIT, PSMKIT, PSSKIT, PSCKIT, 782A(1L), RPS500 (500 ml), RPS200 (200 ml) en Etching Hardener Kit (782BC), EPKIT.

1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Geïdentificeerd gebruik Metaalprimer basis (marine-industrie, deel A).
Ontraden gebruik Geen gegevens beschikbaar.

1.3 Gegevens van de verstrekker van het veiligheidsinformatieblad

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Propspeed International Ltd
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1.4 Telefoonnummer voor noodgevallen

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(24-uur, 365 dagen/jaar)

Sectie 2 - Identificatie van gevaren

2.1 Classificatie van de stof of het mengsel

Classificatie volgens de verordening (EG) nr. 1272/2008 (CLP) en de bijbehorende herzieningen

Identificatie van gevaren

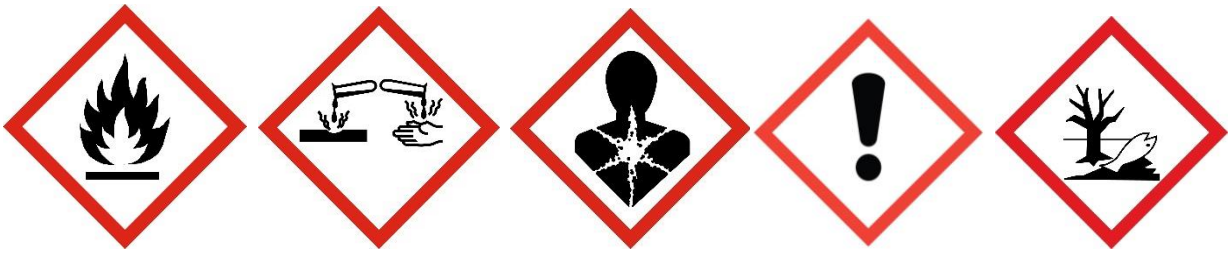
Gevarenklasse	Gevarencategorie	H-Code
Brandbare vloeistoffen	Brandbare vloeistoffen 2	H225
Aspiratietoxiciteit	Asp. tox. 1	H304
Huidirritatie	Huidirrit. 2	H315
Sensibilisatie van de luchtwegen of de huid	Huid sens. 1	H317
Ernstig oogletsel/oogirritatie	Oogletsel 1	H318
Kan irritatie van de luchtwegen veroorzaken	STOT SE 3 H335	H335
Kan slaperigheid of duizeligheid veroorzaken	STOT SE 3 H336	H336
Kan kanker veroorzaken	Kankerverwekkend 1A	H350
Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling	STOT RE 2	H373
Zeer giftig voor in het water levende organismen	Acuut gevaar aquatisch milieu 1	H400
Giftig voor in het water levende organismen met langdurige gevolgen	Chronisch gevaar aquatisch milieu 2	H411

2.2 Etiketteringselementen

Etikettering volgens Verordening (EG) nr. 1272/2008 (CLP)

UFI: 5H80-V0QQ-S000-5FT3

Gevarenpictogrammen:



Signaalwoord: Gevaar

Gevarenaanduidingen:
[H-Code: Gevareninformatie]
H225 Licht ontvlambare vloeistof en damp.
H304 Kan dodelijk zijn als de stof bij inslikken in de luchtwegen terechtkomt.
H315 Veroorzaakt huidirritatie.
H317 Kan een allergische huidreactie veroorzaken.
H318 Veroorzaakt ernstig oogletsel.

H335 Kan irritatie van de luchtwegen veroorzaken.
H336 Kan slaperigheid of duizeligheid veroorzaken.
H350 Kan kanker veroorzaken.
H373 Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.
H400 Zeer giftig voor in het water levende organismen.
H411 Giftig für Wasserorganismen, mit langfristiger Wirkung.

Aanvullende gevareninformatie (EU)
EUH208 Bevat zinkchromaat. Kan een allergische reactie veroorzaken.

Voorzorgsmaatregelen:
[P-Code: Veiligheidsinformatie]
Algemeen
P101: Als medisch advies nodig is, houd dan de verpakking of het etiket van het product bij de hand.
P102: Buiten bereik van kinderen bewaren.
P103: Lees het etiket voor gebruik.
Preventie
P201 Voor gebruik speciale instructies inwinnen.
P260 Stof/damp/spuitnevel niet inademen.
P210 Verwijderd houden van warmte, hete oppervlakken, vonken, open vuur en andere ontstekingsbronnen. Verboden te roken.
P261 Vermijd inademing van stof/damp/spuitnevel.
P273 Voorkom lozing in het milieu.
P233 Gesloten verpakking bewaren.
P202 Niet gebruiken voordat alle veiligheidsmaatregelen zijn gelezen en begrepen.
P272 Verontreinigde werkkleding mag de werkruimte niet verlaten.
P271 Alleen buiten of in een goed geventileerde ruimte gebruiken.
P241 Explosieveilige [elektrische/ventilatie-/verlichtings-/...]apparatuur gebruiken.
P280 Beschermende handschoenen/beschermende kleding/oogbescherming/gelaatsbescherming dragen.
P240 Opslag- en opvangreservoir aarden.
P264 Handen grondig wassen na werken met dit product.
P243 Maatregelen treffen om ontladingen van statische elektriciteit te voorkomen.
P242 Vonkvrij gereedschap gebruiken.
Actie
P301+P310 BIJ INSLIKKEN: Bel onmiddellijk een ANTIGIFCENTRUM of een arts.
P305+P351+P338 BIJ CONTACT MET DE OGEN: Spoel voorzichtig af met water gedurende enkele minuten. Verwijder indien mogelijk contactlenzen. Blijf spoelen.
P308+P313 INDIEN blootgesteld of bezorgd: Zoek medisch advies/medische hulp.
P331 GEEN braken opwekken.

P333+P313 Als huidirritatie of huiduitslag optreedt: Zoek medisch advies/medische hulp.
P312 Bij onwel voelen een ANTIGIFCENTRUM/arts raadplegen.
P391 Gelekte/gemorste stof opruimen.
P302+P352 BIJ CONTACT MET DE HUID: Met veel water spoelen.
P303+P361+P353 BIJ CONTACT MET DE HUID (of het haar): Trek onmiddellijk alle besmette kleding uit. Spoel de huid af met water/neem een douche.
P304+P340 BIJ INADEMING: De persoon in de frisse lucht brengen en ervoor zorgen dat deze gemakkelijk kan ademen.
P332+P313 Indien huidirritatie optreedt: Zoek medisch advies/medische hulp.
Afvoeren
P501: Inhoud/verpakking afvoeren naar een erkend afvalverwerkingsbedrijf.
Bestanddelen
Propaan-2-ol, 2-methylpropan-1-ol, xyleen, zinkhydroxide en zinkchromaat.

Gereduceerde kenmerking (≤ 125 ml) volgens Verordening (EG) nr. 1272/2008

Pictogrammen 
Signaalwoord Gevaar
Gevarenaanduidingen
H225: Licht ontvlambare vloeistof en damp.
H304: Kan dodelijk zijn als de stof bij inslikken in de luchtwegen terechtkomt.
H350: Kan kanker veroorzaken.
H373: Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.
H318: Veroorzaakt ernstig oogletsel.
H315: Veroorzaakt huidirritatie.
H317: Kan een allergische huidreactie veroorzaken.
H335: Kan irritatie van de luchtwegen veroorzaken.
H336: Kan slaperigheid of duizeligheid veroorzaken.
H302 + H312 + H332: Schadelijk bij inslikken. Schadelijk bij contact met de huid. Schadelijk bij inademing.
H400 Zeer giftig voor in het water levende organismen.
H411 Giftig für Wasserorganismen, mit langfristiger Wirkung.

2.3 Andere gevaren

Deze stof of dit mengsel bevat geen bestanddelen die beschouwd worden als persistent, bioaccumulerend en toxisch (PBT), of zeer persistent en sterk bioaccumulerend (zPzB) in concentraties van 0,1% of hoger.

Ecologische informatie: De stof of dit mengsel bevat geen componenten die beschouwd worden als stoffen met hormoonontregelende eigenschappen volgens REACH artikel 57(f), of Gedelegeerde Verordening (EU) 2017/2100 van de Commissieverordening (EU) 2018/605 in niveaus van 0,1% of hoger.

Toxicologische informatie: De stof of dit mengsel bevat geen componenten die beschouwd worden als stoffen met hormoonontregelende eigenschappen volgens REACH artikel 57(f), of Gedelegeerde Verordening (EU) 2017/2100 van de Commissieverordening (EU) 2018/605 in niveaus van 0,1% of hoger.

Rubriek 3 - Samenstelling/informatie over de ingrediënten

3.1 Stoffen
Niet van toepassing

3.2 Mengsels
Beschrijving van het mengsel
Was primerbasis voor toepassing op metalen ondergrond.

Gevaarlijke ingrediënten

Stof	CAS-nr.	EG-nr.	Concentratie %	Classificatie volgens Verordening (EG) nr. 1272/2008	
Propaan-2-ol Index REACh-nr. 603-117-00-0	67-63-0	200-661-7	40 – 50 %	Brandbare vloeistoffen 2 Oogirrit. 2 STOT SE 3	H225 H319 H336
2-methylpropan-1-ol Index REACh-nr. 603-108-00-1	78-83-1	201-148-0	20 - 30 %	Brandbare Liq 3 Oogletsel 1 Huidirrit. 2 STOT SE 3 STOT SE 3	H226 H318 H315 H335 H336
Xyleen Index REACh Nr. 601-022-00-9	1330-20-7	215-535-7	5 - 10%	Brandbare Liq 3 Asp. tox. 1 Acute tox. 4 Huidirrit. 2 Oogirrit. 2 Acute tox. 4 STOT SE 3 H335 STOT RE 2	H226 H304 H312 H315 H319 H332 H335 H373
Zinkhydroxide	20427-58-1	243-814-3	5 - 10%	Aquatisch Acuut 1 Aquatisch chronisch 2	H400 H411
Zinkchromaat Index REACh Nr. 024-007-00-3	13530-65-9	236-878-9	1 - 5%	Acute tox. 4 ORAAL Huid sens. 1 Kankerverwekkend 1A Aquatisch Acuut 1	H302 H317 H350 H400 H410

				Chronisch gevaar aquatisch milieu 1	

Sectie 4 - Eerstehulpmaatregelen

4.1 Beschrijving van eerstehulpmaatregelen

Brandwonden	Onmiddellijk met water spoelen. Verwijder tijdens het spoelen kleding die niet aan het getroffen gebied kleeft. Bel een ambulance. Blijf spoelen tijdens het vervoer naar het ziekenhuis.
Bij contact met de ogen	Spoel onmiddellijk met veel water. Verwijder eventuele contactlenzen en open de ogen wijd. Bel een ambulance en blijf spoelen tijdens het vervoer naar het ziekenhuis. Neem deze instructies mee.
Bij contact met de huid	Verontreinigde kleding onmiddellijk uittrekken en de huid wassen met water en zeep. Het is belangrijk om de substantie onmiddellijk van de huid te verwijderen. Blijf minstens 15 minuten spoelen en zoek medische hulp.
Bij inslikken	Geef nooit iets via de mond aan een bewusteloos persoon. GEEN braken opwekken. Bel onmiddellijk een arts of vergiftigingscentrum.
Bij inademing	De persoon in de frisse lucht brengen, laten rusten en ervoor zorgen dat deze gemakkelijk kan ademen. Zoek indien nodig medische hulp.

4.2 Belangrijkste symptomen en effecten, zowel acuut als vertraagd

Aanvullende belangrijke symptomen en effecten, naast die genoemd onder '4.1 Beschrijving van eerstehulpmaatregelen' (hierboven) en '4.3 Vermelding van de vereiste onmiddellijke medische hulp en speciale behandeling' (hieronder), zijn te vinden in rubriek 11 van het veiligheidsinformatieblad (VIB): Toxicologische informatie.

Chronisch: Kan kanker veroorzaken. Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.

4.3 Vermelding van de vereiste onmiddellijke medische hulp en speciale behandeling

Geen gegevens beschikbaar.

Sectie 5 - Brandbestrijdingsmaatregelen

5.1 Blusmiddelen

Geschikte blusmiddelen:
Blus met kooldioxide of droog poeder.
Verwijder veilig brandbare verpakkingen uit de gevarenzone. Gebruik een waterspuit om gesloten houders die blootgesteld zijn aan vuur af te koelen. Brandbestrijdingsmaatregelen aanpassen aan de omgeving van de brand.

Ongeschikte blusmiddelen:
Sterke waterstraal: kan vuur verspreiden.

5.2 Bijzondere gevaren die door de stof of het mengsel worden veroorzaakt

Brandbare vloeistof.
Dampen zijn zwaarder dan lucht en kunnen zich over vloeren verspreiden. Dampen kunnen zich naar de ontstekingsbron verplaatsen en vlamterugslag/ontsteking veroorzaken. Pas op voor vlamterugslag.
Dampen kunnen explosieve mengsels vormen uit lucht bij omgevingstemperaturen.
Bij brand kunnen zich gevaarlijke verbrandingsgassen of dampen ontwikkelen.

Bij brand kunnen koolstofoxiden vrijkomen: koolmonoxide (CO), kooldioxide (CO_2) en peroxiden. Kan chroomoxide en zinkoxide vormen bij verbranding.
Verpakkingen kunnen ontploffen bij verhitting.
Thermolyse kan leiden tot het vrijkomen van irriterende, corrosieve en giftige gassen/dampen.

5.3 Advies voor brandweerlieden

Draag een onafhankelijk ademhalingsapparaat en geschikte beschermingsmiddelen.
Bestrijd het vuur met normale voorzorgsmaatregelen vanaf een redelijke afstand.
Vermijd contact met de huid.
Volg de algemene brandveiligheidsmaatregelen die op de werkplek zijn aangegeven.
Verplaats indien mogelijk verpakkingen uit de gevarenzone en koel ze af met water.
Voorkom dat bluswater de riolering en het oppervlaktewater vervuilt.

Rubriek 6 - Maatregelen bij onbedoeld vrijkomen

6.1 Persoonlijke voorzorgsmaatregelen, beschermende uitrusting en noodprocedures

Vermijd elke blootstelling. Niet roken, open vuur of andere ontstekingsbronnen gebruiken. Zie sectie 8 voor persoonlijke bescherming. Volg de voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel zoals beschreven in dit veiligheidsinformatieblad. Vooral:

- Zorg voor voldoende ventilatie.
- Raak het product NIET aan en vermijd contact met huid, ogen en kleding.
- Adem dampen, nevel en rook NIET in.

- Verwijder alle ontstekingsbronnen en neem voorzorgsmaatregelen tegen statische ontladingen.

6.2 Milieuvoorzorgsmaatregelen

Niet in de riolering, het oppervlaktewater of het grondwater laten terechtkomen.

Breng de plaatselijke autoriteiten op de hoogte als de afvoer vervuild raakt.

6.3 Methoden en materiaal voor beheersing en opruiming

Pomp het gemorste materiaal weg of zuig het op met absorberende inerte materialen (zand, grond, enz.). Gebruik GEEN zaagsel of ander brandbaar materiaal. Houd rekening met mogelijke materiaalbeperkingen (zie hoofdstuk 7 en 10).

Gebruik vonkvrij gereedschap en explosieveilige apparatuur. Voorkom verder morsen als dat veilig kan. Houd gemorst product uit de buurt van afvoeren, water, kelders en afgesloten ruimten. In metalen/plastic verpakking met goed sluitend deksel doen voor afvoeren, met vermelding van de inhoud. Afvoeren als speciaal afval in overeenstemming met plaatselijke en landelijke voorschriften. Ventileer en reinig het getroffen gebied. Instructies voor afvoer: zie sectie 13.

6.4 Verwijzing naar andere paragrafen

Chemisch op elkaar inwerkende materialen: zie rubriek 7 en 10.

Persoonlijke beschermingsmiddelen: zie rubriek 8.

Instructies voor afvoer: zie sectie 13.

Rubriek 7 - Hantering en opslag

7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel

- Buiten bereik van kinderen bewaren.
- Lees het etiket voor gebruik.
- Lees voor gebruik het veiligheidsinformatieblad.
- Niet gebruiken voordat alle veiligheidsmaatregelen zijn gelezen en begrepen.
- Verwijderd houden van hitte, vonken, open vuur en hete oppervlakken. Verboden te roken.
- Houd de verpakking goed gesloten.
- Gebruik alleen vonkvrij gereedschap.
- Gebruik explosieveilige elektrische apparatuur, ventilatie en verlichting.
- Neem voorzorgsmaatregelen tegen statische ontlading.
- Vermijd het inademen van dampen en nevels.
- Handen grondig wassen na gebruik.
- Verontreinigde werkkleding mag de werkplek niet verlaten.
- Voorkom lozing in het milieu.
- Draag beschermende kleding en beschermende uitrusting.

7.2 Voorwaarden voor een veilige opslag, waaronder chemisch op elkaar inwerkende materialen

- Buiten bereik van kinderen bewaren.
- Alleen in de oorspronkelijke verpakking bewaren.
- Bewaar verpakkingen in een vuurvaste, niet-rokerige ruimte.
- Droog, koel en goed geventileerd bewaren.
- Verwijderd houden van water en vocht.
- Houd verpakkingen goed gesloten.
- Verwijderd houden van hitte, vonken, open vuur, hete oppervlakken en andere ontstekingsbronnen.
- Bescherm verpakkingen tegen fysieke schade en inspecteer ze regelmatig op gebreken of lekken.
- Bescherm tegen zonlicht.
- NIET bewaren met oxiderende middelen. Verwijderd houden van incompatibele materialen zoals beschreven in rubriek 10.
- Achter slot bewaren, in een ruimte die alleen toegankelijk is voor opgeleid en bevoegd personeel.
- Opslag- en opvangreservoir aarden.
- Dampen kunnen explosieve mengsels vormen met lucht.
- Zorg voor geschikte apparatuur om gemorst product op te ruimen en voor brandblussers in de buurt van de opslagruimte.
- Aanbevolen opslagtemperatuur: < 25 °C

7.3 Specifiek eindgebruik

Geen specifiek gebruik voorzien, behalve het gebruik vermeld in sectie 1.2.

Rubriek 8 - Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

8.1 Operationele blootstellingslimieten (OEL)

Ingrediënt	(EU) 2017/2398		Frankrijk		Spanje	
	TWA	STEL	TWA	STEL	TWA	STEL
Propaan-2-ol	-	-	-	980 mg/m^3, 400 ppm	500 mg/m^3	1000 mg/m^3
2-methylpropan-1-ol	-	-	150 mg/m^3, 50 ppm	-	154 mg/m^3	-
XYLEEN	221 mg/m^3, 50 ppm	442 mg/m^3, 100 ppm	221 mg/m^3, 50 ppm	442 mg/m^3, 100 ppm	221 mg/m^3, 50 ppm	442 mg/m^3, 100 ppm
ZINKHYDROXIDE	-	-	-	-	-	-
ZINKCHROMAAT	-	0.005 mg/m^3	0.005 mg/m^3	-	0,01 mg/m^3	-

Ingrediënt	Italië	Nederland	Griekenland	Kroatië

	TWA	**STEL**	**TWA**	**STEL**	**TWA**	**STEL**	**TWA**	**STEL**
Propaan-2-ol	-	-	-	-	-	-	999 mg/m^3, 400 ppm	1250 mg/m^3, 500 ppm
2-methylpropan-1-ol	-	-	-	-	-	-	154 mg/m^3, 50 ppm	231 mg/m^3, 75 ppm
XYLEEN	221 mg/m^3, 50 ppm	442 mg/m^3, 100 ppm	-	-	221 mg/m^3, 50 ppm	442 mg/m^3, 100 ppm	221 mg/m^3, 50 ppm	442 mg/m^3, 100 ppm
ZINKHYDROXIDE	-	-	-	-	-	-	-	-
ZINKCHROMAAT	0.005 mg/m^3	-	0.005 mg/m^3	-	-	-	0.05 mg/m^3	-

8.1 Controleparameters

		Arbeiders			
Component	**Bloot-stelling**	**Acuut/ kortdurend Lokale effecten**	**Acuut/kortdurend Systemische effecten**	**Langetermijn Lokale effecten**	**Langetermijn Systemische effecten**
Propaan-2-ol	Inademing	-	-	-	500 mg/m³
	Huid	-	-	-	888 mg/kg lichaamsgewicht/dag
2-methylpropan-1-ol	Inademing	-	-	310 mg/m³	-
	Huid	-	-	-	-
Xyleen	Inademing	442 mg/m³			
	Huid				
Zinkchromaat	Inademing				0.5 µg/m³
	Huid	-	-	0.2 µg/cm²	0,04 mg/kg lichaamsgewicht/dag
Zinkhydroxide	Inademing	Geen gegevens beschikbaar.			
	Huid				

		Algemene bevolking			
Component	**Bloot-stelling**	**Acuut/ kort-durend Lokale effecten**	**Acuut/ kortdurend Systemische effecten**	**Langetermijn Lokale effecten**	**Langetermijn Systemische effecten**
Propaan-2-ol	Inademing	-	-	-	89 mg/m³
	Huid	-	-	-	319 mg/kg lichaamsgewicht/dag
	Oraal	-	-	-	26 mg/kg lichaamsgewicht/dag
2-methylpropan-1-ol	Inademing	-	-	55 mg/m³	-
	Huid	-	-	-	-
	Oraal	-	-	-	-
Zinkchromaat	Inademing	Geen gegevens beschikbaar.			

	Huid				
	Oraal				
Zinkhydroxide	Inademing	Geen gegevens beschikbaar.			
	Huid				
	Oraal				
Xyleen	Inademing	260 mg/m³	260 mg/m³	65,3 mg/m³	65,3 mg/m³
	Huid	-	-	-	125 mg/kg lichaamsgewicht/dag
	Oraal	-	-	-	12,5 mg/kg lichaamsgewicht/dag

Voorspelde concentratie zonder effect (PNEC)

Component	**Doelstelling milieubescherming**	**PNEC-waarde**
Propaan-2-ol	Zoetwater	140,9 mg/l
	Intermitterende lozingen (zoet water)	140,9 mg/l
	Sediment (zoet water)	552 mg/kg
	Zeewater	140,9 mg/l
	Sediment (zeewater)	552 mg/kg
	Bodem	28 mg/kg
	Rioolwaterzuiveringsinstallatie (STP)	2251 mg/l
2-methylpropan-1-ol	Zoetwater	400 µg/l
	Intermitterende lozingen (zoet water)	11 mg/l
	Sediment (zoet water)	1,56 mg/kg
	Zeewater	40 µg/l
	Sediment (zeewater)	156 µg/kg
	Bodem	76 µg/kg
	Rioolwaterzuiveringsinstallatie (STP)	10 mg/l
Xyleen	Zoetwater	327 µg/l
	Intermitterende lozingen (zoet water)	327 µg/l
	Sediment (zoet water)	12,46 mg/kg
	Zeewater	327 µg/l
	Sediment (zeewater)	12,46 mg/kg
	Bodem	2,31 mg/kg
	Rioolwaterzuiveringsinstallatie (STP)	6,58 mg/l
Zinkchromaat	Zoetwater	5 µg/l Chromium III - 20.6 µg/l Zink
	Intermitterende lozingen (zoet water)	5 µg/l Chroom III - Zink: Niet van toepassing
	Sediment (zoet water)	31 mg/kg dwt Chroom III - 117,8 mg/kg dwt Zink
	Zeewater	5 µg/l Chromium III - 6.1 µg/l Zink
	Sediment (zeewater)	31 mg/kg dwt Chroom III - 56,5 mg/kg dwt Zink
	Bodem	3,2 mg/kg dwt Chroom III - 35,6 mg/kg dwt Zink
	Rioolwaterzuiveringsinstallatie (STP)	100 µg/l Zink - 10 mg/l Chroom III
Zinkhydroxide	Zoetwater	14.4 µg/l
	Intermitterende lozingen (zoet water)	14.4 µg/l
	Sediment (zoet water)	146,9 mg/kg
	Zeewater	7.2 µg/l
	Sediment (zeewater)	162,2 mg/kg
	Bodem	83,1 mg/kg
	Rioolwaterzuiveringsinstallatie (STP)	100 µg/l

8.2 Blootstellingscontroles

8.2.1 Passende technische controles

Zorg voor voldoende ventilatie, vooral in afgesloten ruimtes. Gebruik explosieveilige elektrische/ventilatie-/verlichtings-/apparatuur. Draag geschikte persoonlijke beschermende kleding en uitrusting afhankelijk van de concentraties en hoeveelheden gevaarlijke stoffen op de werkplek.
Niet eten, drinken of roken tijdens gebruik. Verwijderd houden van voedsel, drank en diervoeder. Bewaar geen tabak in werkruimten of ruimten waar het product wordt gebruikt. Vermijd blootstelling voor zwangere vrouwen. Was je handen grondig voor de pauze en na het werk. Vermijd contact met huid, ogen en kleding. Trek alle besmette kleding onmiddellijk uit. Persoonlijke beschermende kleding moet apart van andere kleding worden bewaard. Verontreinigde kleding in gesloten verpakking bewaren tot afvoer of ontsmetting. Dampen of spuitnevel niet inademen. Zorg ervoor dat oogwasstations zich dicht bij de werkplek bevinden. Schoonmaakpersoneel waarschuwen voor de gevaarlijke eigenschappen van de chemische stof.

8.2.2 Persoonlijke beschermingsmiddelen

Oog-/gezichtsbescherming
Gebruik een goed passende veiligheidsbril of gezichtsscherm met zijbescherming. Europese norm EN 166.
Waarschuwing: contactlenzen zijn gevaarlijk; zachte lenzen kunnen irriterende stoffen absorberen en alle soorten lenzen kunnen deze stoffen concentreren.

Handbescherming
Er moeten altijd beschermende handschoenen worden gedragen.

Type materiaal (aanbevolen): Beschermende handschoenen van nitrilrubber.
Materiaaldikte: > 0,4 mm.
Doorbraaktijden van het handschoenmateriaal: > 480 min.

Europese norm EN 374.

Andere soorten handschoenen kunnen worden aanbevolen door de handschoenenleverancier.
Inspecteer de handschoenen voor gebruik. Neem de instructies met betrekking tot doorlaatbaarheid en doorbraaktijd in acht die worden verstrekt door de leverancier van de handschoenen. Houd er rekening mee dat de vloeistof door de handschoenen kan dringen. Houd ook rekening met de specifieke lokale omstandigheden waaronder het product wordt gebruikt, zoals het risico op snijwonden, schaafwonden en contactduur. Waarschuwing: door de vele invloedsfactoren (bv. temperatuur) kan de gebruiksduur van een chemisch beschermende handschoen aanzienlijk korter zijn dan de doorbraaktijden die door de tests worden bepaald. Regelmatig verschonen is aan te raden. Neem rustperiodes om de huid te laten regenereren. Preventieve huidbescherming (barrièrecrèmes/zalven) wordt aanbevolen. Zorg voor een juiste handschoenverwijderingstechniek om huidcontact met besmette oppervlakken te voorkomen.

Voer verontreinigde handschoenen af volgens de plaatselijke wetgeving en goede werkpraktijken.

Bescherming van huid en lichaam
Ondoordringbare beschermende kleding met lange mouwen dragen om elk risico van contact met vloeistof/damp te vermijden. Draag vlamvertragende antistatische beschermingsmiddelen. Draag geschikte persoonlijke beschermende kleding en uitrusting afhankelijk van de concentraties en hoeveelheden gevaarlijke stoffen op de werkplek.

Ademhalingsbescherming
Gebruik een geschikt gecertificeerd ademhalingstoestel. Adembescherming vereist wanneer:

- er niet voor voldoende ventilatie kan worden gezorgd
- de blootstellingslimieten worden overschreden
- er dampen/aërosolen vrijkomen.

Gebruik geschikte persoonlijke beschermingsmiddelen afhankelijk van de concentraties en hoeveelheden gevaarlijke stoffen op de werkplek en in overeenstemming met de Europese normen NF EN.
Neem de maximale draagtijd van ademhalingsbeschermingsmiddelen in acht. Ademhalingsbeschermingsmiddelen moeten de juiste pasvorm hebben en goed worden gebruikt en onderhouden. De werkgever moet ervoor zorgen dat onderhoud, reiniging en testen van ademhalingsbeschermingsmiddelen worden uitgevoerd volgens de instructies van de fabrikant.



8.2.3 Controle op milieublootstelling
Product niet in riolering, oppervlaktewater of grondwater laten terechtkomen. Ontploffingsgevaar.

Rubriek 9 - Fysische en chemische eigenschappen

9.1 Informatie over fysische en chemische basiseigenschappen

Uiterlijk	vloeibare verf
Kleur	geel
Geuralcohol en aromatische oplosmiddelen	
Geurdrempel	gegevens niet beschikbaar

pH	niet van toepassing (product op basis van oplosmiddelen)
Smeltpunt/vriespunt	gegevens niet beschikbaar
Kookpunt en kooktraject	81 °C – 108 °C
Vlampunt	14 °C
Verdampingssnelheid	gegevens niet beschikbaar
Ontvlambaarheid	gegevens niet beschikbaar
Explosiegrenzen	ondergrens: 1,1%, bovengrens: 12.0%
Dampdruk	4,266 Pa (25 °C)
Dichtheid	0,89 - 0,91 (lucht=1)
Relatieve dampdichtheid	≈2.1 (lucht=1)
Soortelijk gewicht	0.87 – 0.92 g/cm^3
Oplosbaarheid	onoplosbaar in water, oplosbaar in organische oplosmiddelen
Verdelingscoëfficiënt (n-octanol/water)	gegevens niet beschikbaar
Zelfontbrandingstemperatuur	gegevens niet beschikbaar
Decompositietemperatuur	gegevens niet beschikbaar
Viscositeit	500 – 750 cP
Moleculaire massa	Mengsel

Rubriek 10 - Stabiliteit en reactiviteit

10.1 Reactiviteit

Stabiel bij normale hantering en opslag.

Andere belangrijke informatie kan in andere delen van dit hoofdstuk worden vermeld.

10.2 Chemische stabiliteit

Stabiel bij normale hantering en opslag. Curatietijd: 5 - 60 min (20 °C)

10.3 Mogelijke gevaarlijke reacties

Dampen kunnen een explosief mengsel vormen met lucht.

Ontstekingsgevaar.

Kan peroxiden vormen.

Reageert heftig met: brandstoffen, salpeterzuur, zwavelzuur, zwavel, alkalimetalen, aardalkalimetalen

Ontstekingsgevaar of gevaar voor vorming van ontvlambare gassen of dampen met: alkalimetalen, aardalkalimetalen, chroom(VI)oxide, sterke oxidatiemiddelen, aluminium

Ontploffingsgevaar met: waterstofperoxide, perchloraten, fosgeen, organische nitroverbindingen, sterke oxidatiemiddelen, salpeterzuur, stikstofdioxide

Exotherme reactie met: aldehyden, amines, oleum, ijzer, aluminium, chloor, fosfortrichloride, salpeterzuur, sterke zuren, zuurchloride, halogeenverbindingen, kalium-tert-butanolaat, sterke brandstoffen, reductiemiddelen

10.4 Te vermijden omstandigheden

Verwijderd houden van open vuur, hete oppervlakken en ontstekingsbronnen.
Vermijd langdurige blootstelling aan licht.

10.5 Chemisch op elkaar inwerkende materialen

Vermijd contact met: rubber, plastic, alkaliën, oliën, sterke brandstoffen, zuren, halogenen, zure anhydriden, aluminium, zure chloriden, oxiderende en reducerende middelen.
Zie 10.3 voor meer details.

10.6 Gevaarlijke ontledingsproducten

Kan peroxiden, koolmonoxide (CO), kooldioxide (CO_2), chroomoxiden, zinkoxiden vormen.
Gevaarlijke verbrandingsstoffen: zie rubriek 5.

Rubriek 11 - Toxicologische informatie

11.1 Informatie over toxicologische effecten

A. COMPONENTEN

[Propan-2-ol]
Acute toxiciteit

LD50 (oraal)	5.840 mg/kg (rat)
LC50 (inademing)	10.000 ppm/6 uur (rat)
LD50 (huid)	16,4 ml/kg (konijn)

(ECHA)

Huidcorrosie/-irritatie
Veroorzaakt irritatie van de slijmvliezen.

Oogletsel/irritatie
Veroorzaakt irritatie.

Sensibilisatie van de huid/Sensibilisatie van de luchtwegen
Veroorzaakt irritatie van de luchtwegen.

Mutageniteit in geslachtscellen
In vitro genotoxiciteit: negatief. In vitro genotoxiciteit: negatief.

Kankerverwekkendheid
Geen.

Giftigheid voor de voortplanting
Uitsluitend giftig voor de vruchtbaarheid en de ontwikkeling van dieren, in doses die bij de ouderdieren toxische effecten veroorzaken.

Teratogeniteit
Geen gegevens beschikbaar.

Specifieke doelorgaantoxiciteit (eenmalige of herhaalde blootstelling)
Geen gegevens beschikbaar.

Bron: ECHA en Frans INRS

[2-methylpropan-1-ol]

Acute toxiciteit

LD50 (oraal)	2.830 - 3.350 mg/kg (rat)
LC50 (inademing)	18,18 mg/l/6 u (rat)
LD50 (huid)	2.000-2.460 mg/kg (konijn)

(ECHA)

Huidcorrosie/-irritatie
Veroorzaakt irritatie van huid en slijmvliezen (ogen, luchtwegen, spijsvertering). Categorie 2.

Oogletsel/irritatie
Veroorzaakt ernstig oogletsel. Categorie 1.

Sensibilisatie van de huid/Sensibilisatie van de luchtwegen
Geen gegevens beschikbaar.

Mutageniteit in geslachtscellen
Negatief.

Kankerverwekkendheid
Geen gegevens beschikbaar.

Giftigheid voor de voortplanting
Bij dieren zijn geen effecten op de vruchtbaarheid of de ontwikkeling aangetoond.

Teratogeniteit
Geen gegevens beschikbaar.

Specifieke doelorgaantoxiciteit (eenmalige of herhaalde blootstelling)
Ademhalingssysteem, centraal zenuwstelsel. Categorie 3.

Bron: ECHA en Frans INRS

[Zinkchromaat]

Acute toxiciteit

LD50 (oraal)	600 mg/kg (rat)

(Frans INRS)

Huidcorrosie/-irritatie
Veroorzaakt huidirritatie en irritatie van slijmvliezen (maag-darmkanaal en luchtwegen).

Oogletsel/irritatie
Veroorzaakt irritatie.

Sensibilisatie van de huid/Sensibilisatie van de luchtwegen
Huid, categorie 1.

Mutageniteit in geslachtscellen
In vitro genotoxiciteit.

Kankerverwekkendheid
Zinkchromaten zijn geclassificeerd als kankerverwekkend.

Giftigheid voor de voortplanting
Geen gegevens beschikbaar.

Teratogeniteit
Geen gegevens beschikbaar.

Specifieke doelorgaantoxiciteit (eenmalige of herhaalde blootstelling)
Geen gegevens beschikbaar.

Bron: Frans INRS

[Xyleen]
Acute toxiciteit

LD50 (oraal)	3.523 - 4.000 mg/kg (rat)
	5,251 - 5,627 mg/kg (muis)
LC50 (inademing)	29 mg/l/4 u (rat)
LD50 (huid)	12,126 mg/kg (konijn)

(ECHA)

Huidcorrosie/-irritatie
Veroorzaakt irritatie van huid en slijmvliezen (ogen, luchtwegen). Categorie 2.

Oogletsel/irritatie
Veroorzaakt ernstige oogirritatie. Categorie 2.

Sensibilisatie van de huid/Sensibilisatie van de luchtwegen
Geen gegevens beschikbaar.

Mutageniteit in geslachtscellen
In vitro genotoxiciteit: negatief. In vitro genotoxiciteit: negatief.

Kankerverwekkendheid
Geen gegevens beschikbaar.

Giftigheid voor de voortplanting

Xyleen is dodelijk voor embryo's en foetotoxisch bij ratten en muizen in hoge doses die niet altijd giftig zijn voor moeders. Geen gegevens om effecten op de vruchtbaarheid te beoordelen.

Teratogeniteit
Geen gegevens beschikbaar.

Specifieke doelorgaantoxiciteit (eenmalige of herhaalde blootstelling)
Ademhalingswegen, categorie 3.
Kan schade aan organen (centraal zenuwstelsel, lever, nieren) veroorzaken bij langdurige of herhaalde blootstelling.

Aspiratiegevaar
Kan dodelijk zijn als de stof bij inslikken in de luchtwegen terechtkomt.

Bron: ECHA en Frans INRS

[Zinkhydroxide]
Acute toxiciteit

LD50 (oraal)	>2000 mg/kg (rat)
LC50 (inademing)	>5,7 mg/l/4 u (rat)

(ECHA)

Oogletsel/irritatie
Veroorzaakt irritatie.

Sensibilisatie van de huid/Sensibilisatie van de luchtwegen
Veroorzaakt huidirritatie en irritatie van slijmvliezen (maag-darmkanaal en luchtwegen).

Mutageniteit in geslachtscellen
Geen gegevens beschikbaar.

Kankerverwekkendheid
Geen gegevens beschikbaar.

Giftigheid voor de voortplanting
Geen gegevens beschikbaar.

Teratogeniteit
Geen gegevens beschikbaar.

Specifieke doelorgaantoxiciteit (eenmalige of herhaalde blootstelling)
Geen gegevens beschikbaar.

Bron: ECHA

B. MENGSEL

Geen specifieke gegevens over het mengsel.

11.2 Meer informatie

Andere bijwerkingen: Ernstige huidirritaties en dermatosen, allergische huidreacties, depressie van het centrale zenuwstelsel, neurologische effecten, misselijkheid, migraine, braken, slaperigheid, duizeligheid, narcose, ataxie, shock.

Andere gevaarlijke eigenschappen kunnen niet worden uitgesloten.
De stof of dit mengsel bevat geen componenten die beschouwd worden als stoffen met hormoonontregelende eigenschappen volgens REACH artikel 57(f), of Gedelegeerde Verordening (EU) 2017/2100 van de Commissieverordening (EU) 2018/605 in niveaus van 0,1% of hoger.

Rubriek 12 - Ecologische informatie

12.1 Toxiciteit

A. COMPONENTEN

Propaan-2-ol	Amerikaanse dikkop-elrits (Pimephales promelas) LC50 - 9,640 mg/l - 96 u - dynamisch Daphnia (Daphnia magna) CE50 - 13,299 mg/l - 48 uur Algen (Desmodesmus subspicatus) - LC50 - > 1.000 mg/l - 72 uur
2-methylpropan-1-ol	Amerikaanse dikkop-elrits (Pimephales promelas) LC50 - 1,430 mg/l - 96 h
Zinkchromaat	Gup (Poecilia reticulata) LC50 - 0,56 mg/l - 96 u Regenboogforel (Oncorhynchus mykiss) LC50 - 0,24 mg/l - 96 u - statisch
Xyleen	Regenboogforel (Oncorhynchus mykiss) LC50 - 2,60 mg/l - 96 u - statisch Algen (Pseudokirchneriella subcapitata) - EC50 - 4,36 mg/l - 73 h - statisch Bacterie (Pseudomonas putida) - EC50 - 43 mg/l - 5,75 h - statisch
Zinkhydroxide	Gup (Poecilia reticulata) LC50 - 0,102 mg/l - 96 u Algen (Pseudokirchneriella subcapitata) - EC50 - 0,042 mg/l - 96 h - statisch

B. MENGSEL

Geen gegevens beschikbaar.

12.2 Persistentie en afbreekbaarheid

A. COMPONENTEN

Propaan-2-ol	Aërobe biologische afbreekbaarheid - Blootstellingstijd 21d

	Resultaat: 95%: Gemakkelijk biologisch afbreekbaar
2-methylpropan-1-ol	Aërobe biologische afbreekbaarheid - Blootstellingstijd 14d Resultaat: >90%: Gemakkelijk biologisch afbreekbaar
Zinkchromaat	Persistente stof. Het product bevat zware metalen. Speciale voorbehandeling vereist. Bevat stoffen waarvan bekend is dat ze gevaarlijk zijn voor het milieu of niet afbreekbaar zijn in rioolwaterzuiveringsinstallaties.
Xyleen	Geen gegevens beschikbaar.
Zinkhydroxide	Geen gegevens beschikbaar.

B. MENGSEL

Het product verhardt tot een niet gemakkelijk afbreekbare massa. Dit product is naar verwachting niet gemakkelijk biologisch afbreekbaar.

12.3 Potentieel bioaccumulerend

A. COMPONENTEN

Propaan-2-ol	Verdelingscoëfficiënt: n-octanol/water log Pow: 0.05 Accumuleert niet significant in organismen. Bioaccumulatie wordt niet verwacht.
2-methylpropan-1-ol	Bioconcentratiefactor (BCF) <100 Verdelingscoëfficiënt: n-octanol/water log Pow: 0.79 (25 °C) Bioaccumulatie wordt niet verwacht.
Zinkchromaat	Dit product heeft een hoog potentieel voor bioconcentratie.
Xyleen	Bioconcentratiefactor (BCF) - 25,9
Zinkhydroxide	Geen gegevens beschikbaar.

B. MENGSEL

Het product verhardt tot een vaste, onbeweeglijke stof. Het product bevat stoffen die oplosbaar zijn in water en zich kunnen verspreiden in watersystemen.

12.4 Mobiliteit in de bodem

A. COMPONENTEN

Propaan-2-ol	HOOG (KOC = 1.06)
2-methylpropan-1-ol	MEDIUM (KOC = 2.048)
Zinkchromaat	Geen gegevens beschikbaar.
Xyleen	Geen gegevens beschikbaar.

Zinkhydroxide	Geen gegevens beschikbaar.

B. MENGSEL

Geen gegevens beschikbaar.

12.5 Resultaten van PBT- en zPzB-beoordeling

A. COMPONENTEN

Propaan-2-ol	Stof wordt niet beschouwd als persistent, bioaccumulerend en toxisch (PBT) / zeer persistent en sterk bioaccumulerend (zPzB).
2-methylpropan-1-ol	
Zinkchromaat	
Xyleen	
Zinkhydroxide	

B. MENGSEL

Geen gegevens beschikbaar.

12.6 Hormoonontregelende eigenschappen

De stof of dit mengsel bevat geen componenten die beschouwd worden als stoffen met hormoonontregelende eigenschappen volgens REACH artikel 57(f), of Gedelegeerde Verordening (EU) 2017/2100 van de Commissieverordening (EU) 2018/605 in niveaus van 0,1% of hoger.

12.7 Ander nadelig effect

Voorkom lozing in het milieu. Zeer giftig voor in het water levende organismen met langdurige gevolgen.

Rubriek 13 - Overwegingen met betrekking tot afvoer

13.1 Afvalverwerkingsmethoden

Product en verpakking afvoeren als gevaarlijk afval. Afvoeren in overeenstemming met de Europese richtlijnen voor afval en gevaarlijk afval. Afvoeren volgens plaatselijke voorschriften. In oorspronkelijke verpakking bewaren. Ga voorzichtig om met lege verpakkingen, want restdampen zijn ontvlambaar.

Afvoeren van product/verpakking

Inhoud en verpakking afvoeren naar een erkend afvalverwerkingsbedrijf voor gevaarlijk afval. Niet lozen in de riolering. Lege verpakkingen bevatten productresten (vloeistof of damp) en kunnen gevaarlijk zijn. Behandel verontreinigde verpakkingen op dezelfde manier als de stof zelf. Houd het product en de lege verpakking uit de buurt van hitte en ontstekingsbronnen.

Wetgeving afvalverwijdering Ref. nr. (EC)

Verwijder verontreinigde containers in overeenstemming met de plaatselijke of nationale wettelijke bepalingen. Indeling van het product in het afvalstadium conform de Europese afvalcatalogus (2000/532/EG). Afvalcodes/afvalbenamingen

volgens de LoW: 08 01 11* Afval van verf en lak dat organische oplosmiddelen of andere gevaarlijke stoffen bevat. Als het product gemengd wordt met ander afval, is deze code mogelijk niet meer van toepassing en moet een geldige code worden toegekend. Voor nadere informatie dient contact opgenomen te worden met de lokale overheid. Afvalstoffen behoren niet te worden verwijderd door lozing in rioleringen. Vraag advies aan de lokale overheid voor het verwijderen van geleegde verpakkingen en gebruik hierbij de gegevens uit dit veiligheidsinformatieblad.

Niet goed gereinigde verpakkingen kunnen gevaarlijke dampen bevatten die (zeer) brandbaar of explosief kunnen zijn.

Special voorzorgsmaatregelen: Gebruik de juiste beschermingsmiddelen bij het afvoeren en/of verwijderen van het product.

HP-codes: HP3, HP4, HP5, HP7, HP13, HP14.

Sectie 14 - Informatie over transport

	ADR/RID Weg en spoor	IMDG	Luchttransport IATA
14.1 VN-nummer	UN1263	UN1263	UN1263
14.2 Juiste VN-vervoersnaam	VERF	VERF	VERF
14.3 Transportgevarenklasse(n)	 3	 3	 3
14.4 Verpakkingsgroep	II	II	II
14.5 Milieurisico	3YE	3YE	3YE
Mariene verontreiniging		Nee*	
EmS		F-E, S-E	

*Verklaring beperkte hoeveelheden:
Als de individuele verpakking van het product kleiner is dan 5 liter of kg, kan het als niet-DG worden vervoerd zolang de productverpakking nog steeds geëtiketteerd is volgens de DG-voorschriften en de chauffeur veiligheidsinformatie krijgt in overeenstemming met hoofdstuk 3.4 van de UNRTDG.

14.6 Speciale voorzorgsmaatregelen voor de gebruiker

Vervoer met lokale gebruikers: vervoer altijd in een correcte en veilige verpakking. Zorg ervoor dat personen die het product vervoeren op de hoogte zijn van de maatregelen die moeten worden genomen als er een ongeluk gebeurt of als het product per ongeluk vrijkomt.

14.7 Vervoer in bulk overeenkomstig bijlage II bij MARPOL 73/78 en de IBC-code

Niet beschikbaar.

Rubriek 15 - Regelgeving

15.1 Specifieke veiligheids-, gezondheids- en milieuvoorschriften/-wetgeving voor de stof of het mengsel

Neem de EU- en nationale voorschriften in acht. Raadpleeg rubriek 2 voor informatie over etikettering.

Richtlijn 2012/18/EU van het Europees Parlement en de Raad betreffende de beheersing van de gevaren van zware ongevallen waarbij gevaarlijke stoffen zijn betrokken (Seveso III): Niet van toepassing.

15.2 Chemische veiligheidsbeoordeling

De fabrikant heeft voor dit product geen chemische veiligheidsbeoordeling uitgevoerd.

Sectie 16 - Overige informatie

Product

De informatie in dit document is gebaseerd op onze kennis op de datum van publicatie.

De eigenschappen van het beschreven product vormen geen garantie in de juridische zin van het woord. Het verstrekken van dit document ontslaat de koper van het product niet van zijn verantwoordelijkheid om te voldoen aan de wet- en regelgeving die van kracht is voor dit product. Deze verklaring is van toepassing op de wederverkoop en distributie van het product, of van stoffen of goederen die dit product bevatten, in andere rechtsgebieden en met inachtneming van de industriële en commerciële eigendomsrechten van derden. Als het beschreven product wordt omgevormd of gemengd met andere stoffen of materialen, is het mogelijk dat de informatie in dit document niet geldig is voor het nieuwe product dat op die manier wordt vervaardigd, tenzij dit expliciet wordt vermeld. Als het product opnieuw wordt verpakt, moet de klant de vereiste veiligheidsinformatie verstrekken.

Begrippenlijst

CAS	Chemical Abstracts Service
ppm	parts per million (delen per miljoen)
LD50	Dodelijke dosis 50 %: de LD50 komt overeen met de dosis van een geteste stof die gedurende een bepaald tijdsinterval 50 % letaliteit veroorzaakt
LC50	Dodelijke concentratie 50%: de LC50 komt overeen met de concentratie van een geteste stof die gedurende een bepaald tijdsinterval 50% letaliteit veroorzaakt
EC50	Effectieve concentratie 50%
zPzB	zeer persistent en zeer bioaccumulerend
WEL	Grenswaarde voor blootstelling op de werkplek

PBT	Persistent, bioaccumulerend en toxisch
DNEL	Afgeleide doses zonder effect
PNEC	Voorspelde concentratie zonder effect
REACh	Verordening inzake de registratie en beoordeling van en de autorisatie en beperkingen ten aanzien van chemische stoffen
CLP	Verordening betreffende de indeling, etikettering en verpakking van stoffen en mengsels
ADR/RID	Europese overeenkomst betreffende het internationale transport van gevaarlijke goederen over de weg
IMDG	Internationale code voor het vervoer van gevaarlijke stoffen over zee
IATA	Internationale Luchtvaartorganisatie

Brandbare vloeistoffen	Brandbare vloeistof
STOT SE	Specifieke doelorgaantoxiciteit - eenmalige blootstelling
STOT RE	Specifieke doelorgaantoxiciteit - herhaalde blootstelling
Oogletsel	Ernstig oogletsel/oogirritatie
Oogirrit.	Oogirritatie
Huidirrit.	Huidirritatie
Kankerverwekkend	Kankerverwekkendheid
Acute tox.	Acute toxiciteit
Huid sens.	Sensibilisatie van de luchtwegen/huid
Aquatisch chronisch	Gevaarlijk voor het aquatisch milieu (chronisch)
Aquatisch Acuut	Gevaarlijk voor het aquatisch milieu
Asp. tox.	Aspiratiegevaar

Date of revision 2024-03-16, Version 5

Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Propspeed Etching Primer Hardener
Catalog No. Component in Propspeed kits 782A (1 L), 783A (500 mL), 783kit (200 mL), and Etching Hardener kit 782BC.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Hardener for metal primer base (marine industry).

1.3 Details of the supplier of the Safety Data Sheet

Supplier
Propspeed International Ltd
PO Box 83232
Edmonton
Auckland
New Zealand
www.propspeed.com

Telephone +64 9 524 1470
Telefax +64 9 813 5246

E-mail (competent person) info@propspeed.com

1.4 Emergency telephone number

Emergency number +64 4 917 9888 (ChemCall)
(24h/24 – 365 d/year)

Section 2 - Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Hazard class	Hazard category	H-Code
Flammable liquids	Category 2	H225
Skin corrosion/irritation	Category 1C	H314
Specific target organ toxicity after single exposure	Category 3	H336

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

UFI: W09Y-5H0W-P503-XHFD

Hazard pictograms:



Signal word: Danger

Hazard statements:
[H-Code: Hazard information]
H225: Highly flammable liquid and vapour.
H314: Causes severe skin burns and eye damage.
H336: May cause drowsiness or dizziness.

Precautionary statements:
[P-Code: Safety information]
General
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
Prevention
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260: Do not breathe fume and vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
Intervention

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P310: Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Elimination
P501: Dispose of contents/container to an approved waste disposal plant.

Reduced labelling (≤ 125 ml) according to Regulation (EC) No. 1272/2008.
Derogations as referred to in section 1.5.2.1. of Annex I.

Hazard pictograms:



Signal word: Danger

Hazard statements:
H314: Causes severe skin burns and eye damage.
H336: May cause drowsiness or dizziness.

Precautionary statements:
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P260: Do not breathe fume and vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P310: Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 3 - Composition/information on ingredients

3.1 Substances
Not applicable

3.2 Mixtures
Description of the mixture
Hardener that contains orthophosphoric acid and alcohol.

<Hazardous ingredients>

CAS No.	CE No. REACh registration No.	Substance	Concentration %	Classification according to Regulation (EC) No. 1272/2008	
67-63-0	200-661-7 01-2119457558-25	Propan-2-ol Index REACh No. 603-117-00-0	60 - 100	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
7664-38-2	231-633-2 01-2119485924-24	Orthophosphoric acid Index REACh No. 015-011-00-6	10 - 20	Skin Corr. 1B	H314

Section 4 - First aid measures

4.1 Description of first aid measures
General information:
- First aider: pay attention to self-protection.
- Remove victim to safety.

Following inhalation:
- Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Seek medical advice if needed. Show these instructions or product label.

Following skin contact:

- Remove contaminated clothing immediately.
- Wash skin with soap and plenty of water. Important to remove the substance from the skin immediately. Continue to rinse for at least 15 minutes.
- Shower immediately in case of significant contamination.
- Seek medical attention. Show these instructions and label.

Following eye contact:

- Flush immediately with plenty of flowing water. Hold eyelids apart to rinse the entire surface of the eye.
- Remove contact lenses if those can be easily removed.
- Call an ambulance and continue flushing during transportation to hospital. Bring these instructions.

Following ingestion:

- Never give anything by mouth to an unconscious person.
- If victim is conscious, rinse mouth.
- Do NOT induce vomiting.
- Call a doctor/physician immediately. Show these instructions and label if possible.

4.2 Most important symptoms and effects, both acute and delayed

Eye: serious eye damage/irritation. Blindness.
Skin: severe burns
Inhalation: irritation of the throat and airways, cough, breathing difficulties, vertigo, headache
Ingestion: dizziness, nausea, vomiting, narcosis, spasm, shock

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5 – Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Carbon dioxide or dry powder.
Remove safely flammable containers from danger zone.

Unsuitable extinguishing media:
Strong water jet.

5.2 Special hazards arising from the substance or mixture

Flammable liquid.
Vapours can form explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapours is possible in the event of fire. Phosphorus oxide may be liberated on case of fire. Vapours may move

towards ignition source and cause flashback/reignition. Beware of flashback. Vapours are heavier than air and may spread along floors. Thermal decomposition can lead to release of irritating, corrosive and toxic gases/vapours. Containers may explode when heated.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and appropriate protective equipment. Follow the general fire precautions indicated in the workplace.

Section 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear personal protective equipment (see section 8).
- Do NOT touch the product and avoid any kind of contact/exposure.
- Do NOT smoke, do NOT use flames or other sources of ignition.
- Non-emergency personnel: evacuate the danger area, observe emergency procedures.

6.2 Environmental precautions

Do not allow to enter drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Do not drain away with water. Soak up spillage with absorbent non-flammable materials (sand, ground, etc.). Do NOT use sawdust or other flammable material. Observe possible material restrictions (see section 7 and 10).

Prevent further spillage if safe to do so. Keep spillage away from drains, waters, basements and enclosed spaces. Place in metallic/ plastic container with tight-fitting lid for disposal, with indication of the content. Dispose of as special waste in compliance with local and national regulations. Ventilate and clean affected area. Disposal considerations: see section 13.

6.4 Reference to other sections

Incompatible materials: see section 7 and 10.

Personal protective equipment: see section 8.

Disposal considerations: see section 13.

Section 7 - Handling and storage

7.1 Precautions for safe handling

- Read label before use and observe label precautions.
- Read safety data sheet before use.

- Ensure adequate ventilation when using the product.
- Keep away from incompatible materials listed in section 10.
- Follow the general fire precautions indicated in the workplace.
- Keep away from heat, sparks, open flames and hot surfaces. — No smoking.
- Wear personal protective clothing and equipment as per section 8.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharges.
- Do not breathe fume and vapours.
- Wash hands thoroughly after handling.
- Keep container tightly closed when not in use.
- Electrostatic charges may be generated during transfer of product from its container.
- Vapours can form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

- Keep out of reach of children.
- Store in a cool and well-ventilated place.
- Keep containers tightly closed.
- Keep away from heat, sparks, open flames and hot surfaces.
- Protect from sunlight.
- Keep away from water and moisture.
- Do NOT store with oxidizing agents.
- Store away from incompatible materials as detailed in section 10.
- Store locked-up, in an area accessible only to trained and authorized personnel.
- Ground/bond container and receiving equipment.
- Vapours can form explosive mixtures with air.
- Have appropriate equipment to clean spillage and fire extinguishers near the storage area.
- Recommended storage temperature: < 25 °C

7.3 Specific end use(s)

No specific use provided except for that mentioned in section 1.2.

Section 8 - Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits (WELs) for chemical substances established nationally:

- **UK:** EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as

amended). Updated Fourth Edition 2020. Published with the permission of the Health and Safety Executive on behalf of the Controller of Her Majesty's Stationery Office.

- **IRE:** 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulation (2001-2019). Published by the Health and Safety Authority.

And in the Community:

- **EU:** Directive 2000/39/EC. https://osha.europa.eu/en/legislation/directives/commission-directive-2006-15-ec

8.1.1 Operational Exposure Limits (OEL)

Ingredient	France		Italy		Spain	
	TWA	STEL	TWA	STEL	TWA	STEL
Propan-2-ol	No data	400 ppm, 980 mg/m3	No data	No data	200 ppm, 500 mg/m3	400 ppm, 1000mg/m3
Orthophosphoric Acid	0.2 ppm, 1 mg/m3	0.5 ppm, 2 mg/m3	1 mg/m3	2mg/m3	1 mg/m3	2mg/m3

Ingredient	Netherlands		Greece		Croatia	
	TWA	STEL	TWA	STEL	TWA	STEL
Propan-2-ol	No data	No data	No data	No data	No data	No data
Orthophosphoric Acid	1 mg/m3	2mg/m3	No data	No data	No data	No data

(1) TWA Time-weighted average (long-term exposure limit): a value in relation to an 8-hour time-weighted average reference period

(2) STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute reference period

8.1.2 Control Parameters

Derived No Effect Level (DNEL)

		Workers			
Component	**Exposure**	**Acute / short-term**	**Acute / short-term**	**Long-term**	**Long-term**

		Local Effects	**Systemic Effects**	**Local Effects**	**Systemic Effects**
Propan-2-ol	Inhalation	-	-	-	500 mg/m³
	Dermal	-	-	-	888 mg/kg bw/day
Orthophosphoric acid	Inhalation	2 mg/m³	-	1 mg/m³	10,7 mg/m³
	Dermal	-	-	-	-

		General population			
Component	**Exposure**	**Acute / short-term Local Effects**	**Acute / short-term Systemic Effects**	**Long-term Local Effects**	**Long-term Systemic Effects**
Propan-2-ol	Inhalation	-	-	-	89 mg/m³
	Dermal	-	-	-	319 mg/kg bw/day
	Oral	-	-	-	26 mg/kg bw/day
Orthophosphoric acid	Inhalation	-	-	360 µg/m³	4.57 mg/m³
	Dermal	-	-	-	-
	Oral	-	-	-	100 µg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Component	**Environmental protection objective**	**PNEC Value**
Propan-2-ol	Freshwater	140.9 mg/l
	Intermittent releases (freshwater)	140.9 mg/l
	Sediment (freshwater)	552 mg/kg
	Marine water	140.9 mg/l
	Sediment (marine water)	552 mg/kg
	Soil	28 mg/kg
	Sewage treatment plant (STP)	2,251 mg/l
Orthophosphoric acid	No data available.	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, especially in confined areas. Wear personal protective clothing and equipment. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Avoid any exposure for pregnant women. Wash hands thoroughly before breaks and after work. Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately. Personal protective clothing must be kept separate from other clothes. Do not breathe vapours or spray mist. Ensure that eyewash stations are close to the workstation location. Warn cleaning personnel of chemical's hazardous properties.

8.2.2 Personal protective equipment

Eye/face protection
Use tight fitting safety goggles or face shield. European standard EN 166.
Avoid wearing contact lenses.

Hand protection
Protective gloves must be worn at all times.

Type of material (recommended): Nitrile rubber protective gloves.
Material thickness: > 0.4 mm.
Breakthrough times of the glove material: > 480 min.

European standard EN 374.

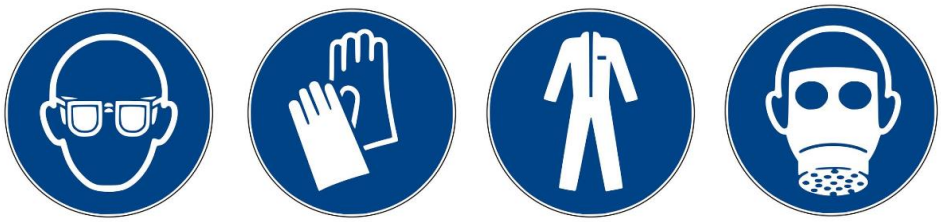
Other types of gloves can be recommended by the glove supplier.
Inspect gloves prior to use. Be aware that the liquid may penetrate the gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the risk of cuts, abrasion and contact time. Warning: due to the many influencing factors (e.g. temperature), the duration of use of a chemical protective glove may be significantly shorter than the breakthrough times determined by the tests. Frequent change is advisable. Ensure proper glove removal technique to avoid skin contact with contaminated surfaces. Dispose of contaminated gloves according to local laws and good workplace practices.

Skin and body protection
Wear acid-resistant protective clothing to avoid any possibility of liquid/vapour contact.

Respiratory protection
Use respiratory protection with full mask when adequate ventilation cannot be provided or when inhalation exposure limits are exceeded.

Appropriate respiratory protection: respirator with full mask, in accordance to European standards NF EN. Recommended filter type: anti-gas filter ABEK (certain inorganic gas and vapour, organics and acids, ammoniac/amines) compliant with recognized standards like NF EN 14387.

Observe the maximum wearing times of respiratory protection devices and the instructions of the manufacturer.



8.2.3 Environmental exposure controls

Do not let product enter drains, surface and ground water.

Section 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless, transparent
Odour	solvent
Odour threshold	data not available
pH	1.2 – 1.5
Melting point/freezing point	data not available
Initial boiling point	82 °C to 83 °C
Flash point	15 °C
Evaporation rate	data not available
Flammability	data not available
Explosive limits	lower limit: 1.1%, upper limit: 12.0%
Vapour pressure	4,266 Pa (20 °C)
Density	0.89 – 0.91 (air=1)
Relative vapour density	1.4 – 1.7 (air=1)
Solubility	data not available
Partition coefficient (n-octanol/water)	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Molecular mass	data not available

Section 10 – Stability and reactivity

10.1 Reactivity

Stable under normal handling and storage conditions.
Other important information may be mentioned in other parts of this chapter.

10.2 Chemical stability

Stable under normal handling and storage conditions. Curation time: 10 - 60 min (20 °C)

10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air.
May form peroxides and dihydrogen.
Risk of ignition.
Violent reaction with: alkalis, metallic oxides
Risk of ignition or formation of inflammable gases or vapours with: alkali metals, alkaline earth metals, chromium (VI) oxide, metal alloys
Risk of explosion with: perchlorates, nitro derivative, hydrogen peroxide, phosgene
Exothermic reaction with: aldehydes, amines, oleum, iron, aluminium, chlorine, phosphorus trichloride, strong acids, halogen compounds, potassium tert-butylate

10.4 Conditions to avoid

Keep away from heat, open flames and sources of ignition.

10.5 Incompatible materials

Avoid contact with alkalis. Avoid contact with oxidisers and reducing agents.
See 10.3 for more details.

10.6 Hazardous decomposition products

May form peroxides and dihydrogen.
Thermal decomposition can lead to release of irritating, corrosive and toxic gases/vapours.

Section 11 – Toxicological information

11.1 Information on toxicological effects

A. COMPONENTS

[Propna-2-ol]
Acute toxicity
LD50 (oral) 5,840 mg/kg (rat)
LC50 (inhalation) 10,000 ppm/6h (rat)
LD50 (dermal) 16.4 ml/kg (rabbit)
(ECHA)

Skin corrosion/irritation
Causes mucosal irritation.

Eye damage/irritation
Causes irritation.

Skin sensitization/Sensitization to the respiratory tract
Causes airways irritation.

Germ cell mutagenicity
In vitro genotoxicity: negative. In vitro genotoxicity: negative.

Carcinogenicity
None.

Reproductive toxicity
Toxic to fertility and development of animals only, in doses causing toxic effects in parents.

Teratogenicity
No data available.

Specific target organ toxicity (single or repeated exposure)
No data available.

Source: ECHA and French INRS

[Orthophosphoric acid]

Acute toxicity

LD50 (oral)	1,530 mg/kg (rat)
LC50 (inhalation)	> 213 mg/m^3/4h (rat)
	1,689 mg/m^3/1h (rabbit)
LD50 (dermal)	2,740 mg/kg (rabbit)

Skin corrosion/irritation
Causes severe skin burns/irritation and burns/irritation of respiratory and digestive mucous membrane.

Eye damage/irritation
Causes severe eye damage.

Skin sensitization/Sensitization to the respiratory tract
Causes severe airways irritation.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available. The International Agency for Research on Cancer (IARC) has classified strong inorganic acid mists as group 1 human carcinogens.

Reproductive toxicity

Fetotoxic for rats exposed to high concentration by inhalation.

Teratogenicity
No data available.

Specific target organ toxicity (single or repeated exposure)
No data available.

Source: French INRS

B. MIXTURE

Acute toxicity

Lethal dose (oral)	No specific data on mixture.
Lethal dose (dermal)	No specific data on mixture.
Lethal concentration (inhalation)	No specific data on mixture.

Skin corrosion/irritation
Conclusion/summary on mixture Causes severe burns.
Eye damage/irritation
Conclusion/summary on mixture Causes serious eye damage.
Skin sensitization/Sensitization to the respiratory tract
Conclusion/summary on mixture No specific data on mixture.
Germ cell mutagenicity
Conclusion/summary on mixture No specific data on mixture.
Carcinogenicity
Conclusion/summary on mixture No specific data on mixture.
Reproductive toxicity
Conclusion/summary on mixture No specific data on mixture.
Specific target organ toxicity - single exposure
Conclusion/summary on mixture No specific data on mixture.
Specific target organ toxicity - repeated exposure
Conclusion/summary on mixture No specific data on mixture.
Aspiration hazard
No specific data on mixture.

11.2 Further information
Other adverse effects: severe irritation and burns of the respiratory and digestive tract, central nervous system depression, kidney damage, nausea, migraine, vomiting, narcosis, coma, ataxia, blindness, shock.
Other dangerous properties cannot be excluded.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission

Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12 – Ecological information

12.1 Toxicity

A. COMPONENTS

Propan-2-ol	Fathead minnow fish (Pimephales promelas) LC50 – 9,640 mg/l – 96h - dymamic Daphnia (Daphnia magna) EC50 – 13,299 mg/l – 48h Algae (Desmodesmus subspicatus) – LC50 – > 1,000 mg/l – 72h
Orthophosphoric acid	Fish wild guppy (Gambusia affinis) LC50 – 138 mg/l – 96h Daphnia (Daphnia magna) EC50 – 100 mg/l – 48h – static Algae (Desmodesmus subspicatus) – EC50r – 100 mg/l – 72h - static

B. MIXTURE

No data available.

12.2 Persistence and degradability

A. COMPONENTS

Propan-2-ol	Aerobic biodegradability – Exposure time 21d Result: 95%: Readily biodegradable
Orthophosphoric acid	No data available.

B. MIXTURE

No data available.

12.3 Bioaccumulative potential

A. COMPONENTS

Propan-2-ol	Partition coefficient: n-octanol/water Log Pow : 0.05 Does not significantly accumulate in organisms. Bioaccumulation is not expected.
Orthophosphoric acid	No data available.

B. MIXTURE

No data available.

12.4 Mobility in soil

A. COMPOSANTS

Propan-2-ol	No data available.

	Likely to be mobile in the environment due to its volatility.
Orthophosphoric acid	No data available. Likely to be mobile in the environment due to its solubility in water.

B. MIXTURE

No data available.

12.5 Results of PBT & vPvB assessment

A. COMPONENTS

Propan-2-ol	Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).
Orthophosphoric acid	

B. MIXTURE

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effect

Avoid release to the environment.

Section 13 – Disposal considerations

13.1 Waste treatment methods

Dispose of product and container as hazardous waste. Dispose in accordance with European directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Product/packaging disposal

Dispose of containers contaminated by the product in accordance with local or national legal provisions. The European Waste Catalogue (2000/532/EC) classification of this product. Waste codes / waste designations according to LoW: 08 01 11* Waste paint and varnish containing organic solvents or other hazardous substances. If this product is mixed with other wastes, the original waste product code may no longer apply, and the appropriate code should be assigned. For further information contact your local waste authority. Waste should not be disposed of by release to sewers. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers.

Containers which are not properly cleaned may contain (highly) flammable or explosive vapours.

Special precautions: Use appropriate protective equipment for the removal and / or disposal of this product.

HP Codes: HP3, HP4, HP5, HP8

Section 14 – Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3(8) 	3(8) 	3(8) 
14.4 Packing group	II	II	II
14.5 Environmental hazard	No	No	No

Hazchem code 3WE.

14.6 Special precautions for user

Transport with local users: always transport in packaging that is correct and secure. Ensure that persons transporting the product are aware of the measures to be taken if an accident occurs or in case of accidental release.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not available.

Section 15 – Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe EU and national regulations. For labelling information, please refer to section 2.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III): Not applicable.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out by the manufacturer for this product.

Section 16 – Other information

Product

The information provided in this document is based on our knowledge at the date of its publication.

The properties of the product described do not constitute a warranty in the legal sense of the term. The provision of this document does not release the purchaser of the product from his responsibility to comply with legislations and regulations in force for this product. This statement applies for the resale and distribution of the product, or of substances or goods containing this product, in other jurisdictions and having regard to the industrial and commercial property rights of third parties. If the product described is transformed or mixed with other substances or materials, the information contained in this document may not be valid for the new product thus manufactured, unless explicitly mentioned. In case of repackaging of the product, the customer is required to provide the required safety information.

Legend

CAS	Chemical Abstracts Service
ppm	part per million
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
EC50	Effective Concentration 50%
vPvB	very Persistent and very Bioaccumulative
WEL	Workplace Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration
REACh	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemical
CLP	Regulation on Classification, Labelling and Packaging of substances and mixtures
ADR/RID	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
Flam. Liq.	Flammable liquid

STOT SE	Specific target organ toxicity - single exposure
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion

PROPSPEED CLEAR COAT
Safety Data Sheet
According to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) No. 2020/878)

Language EN
Date of revision 2024-03-16, Version 6

Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Propspeed Clear Coat
Catalog No. Component in Propspeed PSSKIT-EU (CC80, 80 mL), PSMKIT-EU (CC200, 200 mL), PSLKIT-EU (CC320, 320 mL), PSCKIT-EU (CC1280, 1,280 mL), and individually in Clear Coat 320 mL only (CC320; 320 mL).

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Protective coating for boats' propellers and underwater metals.

1.3 Details of the supplier of the Safety Data Sheet

Supplier Propspeed International Ltd
PO Box 83232
Edmonton
Auckland
New Zealand
www.propspeed.com

Telephone +64 9 524 1470
Telefax +64 9 813 5246

E-mail (competent person) info@propspeed.com

1.4 Emergency telephone number

Emergency number (24h/24 – 365 d/year) +64 4 917 9888 (ChemCall)

Section 2 - Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Hazard class	Hazard category	H-Code
Flammable liquids	Category 2	H225
Aspiration hazard	Category 1	H304
Skin corrosion/irritation	Category 1	H314
Carcinogenicity	Category 1	H350
Specific target organ toxicity, single exposure	Category 1	H370
Specific target organ toxicity after repeated exposure	Category 2	H373

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

UFI: M2PU-82DM-R005-JM0H

Hazard pictograms:



Signal word: Danger

Hazard statements:
[H-Code: Hazard information]
H225: Highly Flammable liquid and vapour
H304: May be fatal if swallowed and enters airways.
H314: Causes skin burns and severe eye damage.
H350: May cause cancer.
H370: Causes damage to organs (upper respiratory tract).
H373: May cause damage to organs (blood system) through prolonged or repeated exposure.

Precautionary statements:
[P-Code: Safety information]
General
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
Prevention

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe fume and vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Elimination
P501: Dispose of contents/container to an approved waste disposal plant.

Reduced labelling (≤ 125 ml) according to Regulation (EC) No. 1272/2008. Derogations as referred to in section 1.5.2.1. of Annex I.

Hazard pictograms:



Signal word: Danger

Hazard statements:
H225: Highly Flammable liquid and vapour
H304: May be fatal if swallowed and enters airways.
H314: Causes skin burns and severe eye damage.
H350: May cause cancer.
H370: Causes damage to organs (upper respiratory tract).

Precautionary statements:
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P260: Do not breathe fume and vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

Pregnant women should not be exposed to the product. The release of this product into sewers, sea, lakes and other surface waters has undesirable effects.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 3 - Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Description of the mixture

1-pack polysiloxane mixture.

Hazardous ingredients

CAS No.	CE No. REACh registration No.	Substance	Concentration %	Classification according to Regulation (EC) No. 1272/2008	
1330-20-7	215-535-7 01-2119488216-32	Xylene Index REACh No. 601-022-00-9	5 - 10	Flam. Liq 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2	H226 H332 H312 H315
100-41-4	202-849-4 01-2119489370-35	Ethylbenzene Index REACh No. 601-023-00-4	5 - 10	Flam. Liq. 2 Acute Tox. 4 STOT RE 2 Asp. Tox. 1	H225 H332 H373 H304
96-29-7	202-496-6 01-2119539477-28	2-Butanone, oxime* Index REACh No. 616-014-00-0	0,1 - 1	Carc. 1B Acute Tox. 4 Acute Tox. 3 STOT SE 3 STOT SE 1 STOT RE 2 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1	H350 H312 H301 H336 H370 (upper respiratory tract) H373 (blood system) H315 H318 H317
919-30-2	213-048-4 01-2119480479-24	3-aminopropyltriethoxysilane Index REACh No. 612-108-00-0	0,1 - 1	Acute Tox. 4 Skin Corr. 1B	H302 H314

*Specific Conc. Limits, M-factors and ATEs: dermal: ATE = 1,100 mg/kg bw, oral: ATE = 100 mg/kg bw

Section 4 - First aid measures

4.1 Description of first aid measures

General information:

- Remove non-emergency personnel to safety.
- First aider: pay attention to self-protection.

Following inhalation:

- Immobilize victim.
- If victim faints, lie down in a stable lateral position.
- Prevent hypothermia.
- Call a doctor/physician immediately and give the exact reference of the product and these instructions.

Following skin contact:

- Remove contaminated clothing immediately.
- Wash skin immediately with soap and plenty of water.
- Shower immediately in case of significant contamination.
- In case of apparent skin change or pain, seek medical advice. Show these instructions and label if possible.

Following eye contact:

- Flush immediately with plenty of flowing water for 10 to 15 minutes. Hold eyelids apart to rinse the entire surface of the eyes and lids.
- Remove contact lenses if those can be easily removed.
- Seek medical attention if irritation persists.

Following ingestion:

- If victim is conscious, drink plenty of water in small sips.
- Do NOT induce vomiting.
- Call a doctor/physician immediately and give the exact reference of the product. Show these instructions and label if possible.

4.2 Most important symptoms and effects, both acute and delayed

Headache, cough, irritation, breathing difficulties, spasm, etc.

4.3 Indication of any immediate medical attention and special treatment needed

Information is not available.

Section 5 – Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide, alcohol compatible/resistant foam, dry powder or sand.

- Remove safely flammable containers from danger zone.
- Use appropriate fire extinguisher.
- Attack fire in the direction of the wind.

Unsuitable extinguishing media:
Strong water jet.

5.2 Special hazards arising from the substance or mixture
Flammable liquid.

5.3 Advice for firefighters
Wear self-contained breathing apparatus and appropriate protective equipment.

Section 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Wear personal protective equipment (see section 8).
- Avoid contact with skin, eyes and clothing.
- Do NOT breathe vapour/spray.
- Do not allow to enter drains, surface and ground water (see section 13)
- Do not drain away with water.
- Collect spillage mechanically and dispose of in accordance with regulations.
- Or soak up spillage with absorbent material like diatomite and dispose of in accordance with regulations.
- Remove any viscous deposits with a cleaning product / soap solution or any other biodegradable detergent.

6.2 Environmental precautions
Do not allow to enter drains, surface and ground water.

6.3 Methods and material for containment and cleaning up
Do not drain away with water. Collect spillage mechanically and dispose of in accordance with regulations. Remove any viscous deposits with a cleaning product / soap solution or any other biodegradable detergent.

6.4 Reference to other sections
Personal protective equipment: see section 8.
Disposal considerations: see section 13.

Section 7 - Handling and storage

7.1 Precautions for safe handling

- Use only outdoors or in a well-ventilated area.
- Keep away from incompatible materials listed in section 10.
- Follow the general fire precautions indicated in the workplace.

7.2 Conditions for safe storage, including any incompatibilities

- Keep containers tightly closed.
- Store in a cool and well-ventilated place.
- Ensure adequate ventilation of workplace and storage area.
- Protect from sunlight.
- Keep away from water and moisture.

7.3 Specific end use(s)

No specific use provided except for that mentioned in section 1.2.

Section 8 - Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values (OEL)

Ingredient	France		Italy		Spain	
	TWA	STEL	TWA	STEL	TWA	STEL
Xylene	221 mg/m3, 50 ppm	442 mg/m3, 100 ppm	221 mg/m3, 50 ppm	442 mg/m3, 100 ppm	221 mg/m3, 50 ppm	442 mg/m3, 100 ppm
Ethylbenzene	88.4 mg/m3, 20 ppm	442 mg/m3, 100 ppm	442 mg/m3, 100 ppm	884 mg/m3, 200 ppm	441 mg/m3, 100ppm	884 mg/m3, 100 ppm
2-Butanone, oxime	No data available.					
3-aminopropyltriethoxysilane	No data available.					

Ingredient	Netherlands		Greece		Croatia	
	TWA	STEL	TWA	STEL	TWA	STEL
Xylene	210 mg/m3, 47.5 ppm	430 mg/m3, 97.3 ppm	435 mg/m3, 100ppm	650 mg/m3, 150 ppm	221 mg/m3, 50 ppm	442 mg/m3, 100 ppm

Ethylbenzene	215 mg/m3, 48.6 ppm	430 mg/m3, 97.3 ppm	435 mg/m3, 100ppm	545 mg/m3, 125 ppm	442 mg/m3, 100 ppm	884 mg/m3, 200 ppm
2-Butanone, oxime	No data available.					
3-aminopropyltriethoxysilane	No data available.					

(1) TWA Time-weighted average (long-term exposure limit): a value in relation to an 8-hour time-weighted average reference period
(2) STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute reference period

8.1.2 Control parameters

Derived No Effect Level (DNEL)

		Workers			
Component	**Exposure**	**Acute / short-term Local Effects**	**Acute / short-term Systemic Effects**	**Long-term Local Effects**	**Long-term Systemic Effects**
Xylene	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
	Dermal	-	-	-	212 mg/kg bw/day
Ethylbenzene	Inhalation	293 mg/m³	Low risk (no limit)	442 mg/m³	77 mg/m³
	Dermal	-	-	-	180 mg/kg bw/day
2-Butanone, oxime	Inhalation	-	-	3.33 mg/m³	9 mg/m³
	Dermal	-	2.5 mg/kg bw/day	-	1.3 mg/kg bw/day
3-aminopropyltriethoxysilane	Inhalation	-	59 mg/m³	-	59 mg/m³
	Dermal	-	8.3 mg/kg bw/day	-	8.3 mg/kg bw/day

		General population			
Component	**Exposure**	**Acute / short-term Local Effects**	**Acute / short-term Systemic Effects**	**Long-term Local Effects**	**Long-term Systemic Effects**
Xylene	Inhalation	260 mg/m³	260 mg/m³	65.3 mg/m³	65.3 mg/m³

	Dermal	-	-	-	125 mg/kg bw/day
	Oral	-	-	-	12.5 mg/kg bw/day
Ethylbenzene	Inhalation	-	Low risk (no limit)	-	15 mg/m³
	Dermal	-	-	-	-
	Oral	-	-	-	1.6 mg/kg bw/day
2-Butanone, oxime	Inhalation	-		2 mg/m³	2.7 mg/m³
	Dermal	-	1.5 mg/kg bw/day	-	780 µg/kg bw/day
	Oral	-	-	-	-
3-aminopropyltriethoxysilane	Inhalation	-	17.4 mg/m³	-	17.4 mg/m³
	Dermal	-	8.3 mg/m³	-	8.3 mg/m³
	Oral	-	-	-	-

Predicted No-Effect Concentration (PNEC)

Component	**Environmental protection objective**	**PNEC Value**
Xylene	Freshwater	327 µg/l
	Intermittent releases (freshwater)	327 µg/l
	Sediment (freshwater)	12.46 mg/kg
	Marine water	327 µg/l
	Sediment (marine water)	12.46 mg/kg
	Soil	2.31 mg/kg
	Sewage treatment plant (STP)	6.58 mg/l
Ethylbenzene	Freshwater	100 µg/l
	Intermittent releases (freshwater)	100 µg/l
	Sediment (freshwater)	13.7 mg/kg
	Marine water	10 – 100 µg/l
	Sediment (marine water)	1.37 mg/kg
	Soil	2.38 mg/kg
	Sewage treatment plant (STP)	9.6 mg/l
2-Butanone, oxime	Freshwater	256 µg/l
	Intermittent releases (freshwater)	118 µg/l
	Sediment (freshwater)	-
	Marine water	-
	Sediment (marine water)	-
	Soil	-

	Sewage treatment plant (STP)	177 mg/l
3-aminopropyltriethoxysilane	Freshwater	330 µg/l
	Intermittent releases (freshwater)	3.3 mg/l
	Sediment (freshwater)	1.2 mg/kg
	Marine water	33 µg/l
	Sediment (marine water)	120 µg/kg
	Soil	50 µg/kg
	Sewage treatment plant (STP)	13 mg/l

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. Wash hands thoroughly before breaks and after work. Avoid any exposure for pregnant women.

8.2.2 Personal protective equipment

Eye/face protection
Use tight fitting safety goggles or face shield.

Hand protection
Protective gloves must be worn at all times.

Type of material (recommended for splash contact): Nitrile rubber protective gloves.
Material thickness: > 0.4 mm.
Breakthrough times of the glove material: 10-30 min.

Type of material (recommended for full contact): Butyl rubber protective gloves.
Material thickness: > 0.3 mm.
Breakthrough times of the glove material: >480 min.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the risk of cuts, abrasion and contact time. Warning: due to the many influencing factors (e.g. temperature), the duration of use of a chemical protective glove may be significantly shorter than the breakthrough times determined by the tests.

Skin and body protection

Wear appropriate protective clothing.

Respiratory protection

Use appropriate certified respirator when exposure limits are exceeded. Appropriate respiratory protection: respiratory protection device with full mask, in accordance to European standards like NF EN 136.

Recommended filter type: anti-gas filter ABEK (certain inorganic gas and vapour, organics and acids, ammoniac/amines) compliant with recognized standards like NF EN 14387.

When exposed to vapours/aerosols, use appropriate individual respiratory protection and clothing. Appropriate respiratory protection: respiratory protection device with full mask, in accordance to European standards like NF EN 136.

Recommended filter type: combined filter ABEK-P2 (certain inorganic gas and vapour, organics and acids, ammoniac/amines, particles) compliant with recognized standards like NF EN 14387.

Observe the maximum wearing times of respiratory protection devices and the instructions of the manufacturer.



8.2.3 Environmental exposure controls

Do not let product enter drains, surface and ground water.

Section 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless, transparent
Odour	solvent
Odour threshold	data not available
pH	not applicable
Melting point/freezing point	none
Boiling point and boiling range	136.2 – 144.4 °C
Flash point	28.2 °C
Evaporation rate	data not available
Flammability	not applicable
Explosive limits	lower limit: 1.1%, upper limit: 7%

Vapour pressure	1,333 Pa (32 °C)
Density	0.94 – 1.04 g/ml
Solubility	not applicable
Partition coefficient (n-octanol/water)	not applicable
Auto-ignition temperature	432 °C
Decomposition temperature	not applicable
Viscosity	500 – 800 mPa.s at 23 °C (Brookfield)
Molecular mass	not usable

Section 10 – Stability and reactivity

10.1 Reactivity

No hazardous reaction known under normal handling and storage conditions.
Other important information may be mentioned in other parts of this chapter.

10.2 Chemical stability

Stable under normal handling and storage conditions. Curation time: 5 - 60 min (20 °C)

10.3 Possibility of hazardous reactions

No risk of dangerous reactions under normal usage conditions.

10.4 Conditions to avoid

Keep away from heat and moisture.

10.5 Incompatible materials

Dihydrogen may be liberated when in contact with water, alcohols, acids and bases of certain metals, and thus create explosive gas in air. May react with strong oxidising agents.

10.6 Hazardous decomposition products

May form low molecular weight monomers such as CO and NO_x and a release of dihydrogen.

Section 11 – Toxicological information

11.1 Information on toxicological effects

A. COMPONENTS

Acute toxicity
[Xylene]

LD50 (oral) 3,523 mg/kg (rat)
LC50 (inhalation) 29 mg/l/4h (rat)
LD50 (dermal) 12,126 mg/kg (lapin)

[Ethylbenzene]

LD50 (oral) 3,500 mg/kg (rat)
LC50 (inhalation) 17.2 mg/l/4h
LD50 (dermal) 15,433 mg/kg (rabbit)

[2-Butanone, oxime]

LD50 (oral) 2,326 mg/kg (rat)
LC50 (inhalation) 4.83 mg/l/4h (rat)
LD50 (dermal) 2,702 mg/kg (rat)

[3-aminopropyltriethoxysilane]

LD50 (oral) 1,780 mg/kg (rat)
LC50 (inhalation) 5 ppm - 6h (rat)
LD50 (dermal) 4,290 mg/kg (rabbit)

B. MIXTURE

Acute toxicity

Lethal dose (oral)	No specific data on mixture.
Lethal dose (dermal)	No specific data on mixture.
Lethal concentration (inhalation)	No specific data on mixture.

Skin corrosion/irritation
Conclusion/summary on mixture No specific data on mixture.
Eye damage/irritation
Conclusion/summary on mixture No specific data on mixture.
Skin sensitization/Sensitization to the respiratory tract
Conclusion/summary on mixture No specific data on mixture.
Germ cell mutagenicity
Conclusion/summary on mixture No specific data on mixture.
Carcinogenicity
Conclusion/summary on mixture No specific data on mixture.
Reproductive toxicity
Conclusion/summary on mixture No specific data on mixture.
Specific target organ toxicity - single exposure
Conclusion/summary on mixture No specific data on mixture.
Specific target organ toxicity - repeated exposure

Conclusion/summary on mixture No specific data on mixture.

Aspiration hazard
May be fatal if swallowed and enters airways.

11.2 Further information

Other adverse effects: central nervous system depression, nausea, migraine, vomiting, ataxia, shivers. Other dangerous properties cannot be excluded.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12 – Ecological information

12.1 Toxicity

A. COMPONENTS

Xylene	Fish (Oncorhynchus mykiss) LC50 – 2.60 mg/l – 96h – static Algae (Pseudokirchneriella subcapitata) – EC50 – 4.36 mg/l – 73h - static Bacterium (Pseudomonas putida) – EC50 – 43 mg/l – 5.75h - static
Ethylbenzene	Fish (Oncorhynchus mykiss) LC50 – 4.20 mg/l – 96h Daphnia (Daphnia magna) – EC50 – 1.8-2.4 mg/l – 48h - static Algae (Skeletonema costatum) – EC50 – 4.9 mg/l – 72h - static
2-Butanone, oxime	Fish (Oryzias latipes) LC50 – >100 mg/l – 96h – semi-static Daphnia (Daphnia magna) – EC50 – 201 mg/l – 48h - static Algae (Scenedesmus capricornutum) – EC50 – 11.8 mg/l – 72h - static
3-aminopropyltriethoxysilane	Zebra fish (Danio rerio) LC50 – 934 mg/l – 96h – semi-static Daphnia (Daphnia magna) – EC50 – 331 mg/l – 48h - static Algae (Desmodesmus subspicatus) – EC50r – >1,000 mg/l – 72h – static Bacterium (Pseudomonas putida) – EC50 – 43 mg/l – 5.75h - static

B. MIXTURE

No data available.

12.2 Persistence and degradability

A. COMPONENTS

Xylene	No data available.
Ethylbenzene	Aerobic biodegradability – Exposure time 28d Result: 70-80%: Readily biodegradable
2-Butanone, oxime	No data available.
3-aminopropyltriethoxysilane	Aerobic biodegradability – Exposure time 28d Result: 67%: not readily biodegradable

B. MIXTURE

No data available.

12.3 Bioaccumulative potential

A. COMPONENTS

Xylene	Bioconcentration factor (BCF) – 25.9
Ethylbenzene	Bioconcentration factor (BCF) – 110 l/kg
2-Butanone, oxime	Cyprinus carpio (Carp) – 42d – 2 mg/l Bioconcentration factor (BCF) – 0.5 – 0.6
3-aminopropyltriethoxysilane	Cyprinus carpio (Carp) – 8 weeks – 5 mg/l Bioconcentration factor (BCF) – 3.4

B. MIXTURE

No data available.

12.4 Mobility in soil

A. COMPOSANTS

Xylene	No data available.
Ethylbenzene	No data available.
2-Butanone, oxime	No data available.
3-aminopropyltriethoxysilane	No data available.

B. MIXTURE

No data available.

12.5 Results of PBT & vPvB assessment

A. COMPONENTS

Xylene	Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).
Ethylbenzene	
2-Butanone, oxime	

3-aminopropyltriethoxysilane	

B. MIXTURE

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effect

None.

Section 13 – Disposal considerations

13.1 Waste treatment methods

Dispose of product and container as hazardous waste. Dispose in accordance with European directives on waste and hazardous waste. Dispose of in accordance with local regulations. Keep in original container. Handle empty containers carefully, as residual vapours are flammable.

Product/packaging disposal

Dispose of contents and container to an approved waste disposal plant for hazardous waste. Do not release to sewage system. Empty containers contain product residue (liquid or vapor) and may be dangerous. Handle contaminated packages in the same way as the substance itself. Keep product and empty container away from heat and ignition sources.

Waste Disposal Legislation Ref.No. (EC)

Dispose of containers contaminated by the product in accordance with local or national legal provisions. The European Waste Catalogue (2000/532/EC) classification of this product. Waste codes / waste designations according to LoW: 08 01 11* Waste paint and varnish containing organic solvents or other hazardous substances. If this product is mixed with other wastes, the original waste product code may no longer apply, and the appropriate code should be assigned. For further information contact your local waste authority. Waste should not be disposed of by release to sewers. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers.

Containers which are not properly cleaned may contain (highly) flammable or explosive vapours.

Special precautions: Use appropriate protective equipment for the removal and / or disposal of this product.

HP Codes: HP3, HP4, HP5, HP7, HP8.

Section 14 – Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	 3	 3	 3
14.4 Packing group	III	III	III
14.5 Environmental hazard	No	No	No

Hazchem code: -

14.6 Special precautions for user

Transport with local users: always transport in packaging that is correct and secure. Ensure that persons transporting the product are aware of the measures to be taken if an accident occurs or in case of accidental release.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not available.

Section 15 – Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe EU and national regulations. For labelling information, please refer to section 2.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III): Not applicable.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out by the manufacturer for this product.

Section 16 – Other information

Product

The information provided in this document is based on our knowledge at the date of its publication.

The properties of the product described do not constitute a warranty in the legal sense of the term. The provision of this document does not release the purchaser of the product from his responsibility to comply with legislations and regulations in force for this product. This statement applies for the resale and distribution of the product, or of substances or goods containing this product, in other jurisdictions and having regard to the industrial and commercial property rights of third parties. If the product described is transformed or mixed with other substances or materials, the information contained in this document may not be valid for the new product thus manufactured, unless explicitly mentioned. In case of repackaging of the product, the customer is required to provide the required safety information.

Legend

CAS	Chemical Abstracts Service
ppm	part per million
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
EC50	Effective Concentration 50%
vPvB	very Persistent and very Bioaccumulative
WEL	Workplace Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration

REACh	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemical
CLP	Regulation on Classification, Labelling and Packaging of substances and mixtures
ADR/RID	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association

Flam. Liq.	Flammable liquid
Acute Tox.	Acute toxicity
Skin Irrit.	Skin irritation

STOT RE	Specific target organ toxicity - repeated exposure
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage/eye irritation
Skin Sens.	Respiratory/skin sensitization
Skin Corr.	Skin corrosion

PROPPREP
Safety Data Sheet
According to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) No. 2020/878)

Date of revision 2024-03-16, Version 6

Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Propprep
Catalog No. PPSOL in PPWIPE10-EU, PP500-EU, PP1L-EU Propspeed kits: PSLKIT-EU, PSMKIT-EU, PSSKIT-EU, PSCKIT-EU.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Specialised metal treatment designed to provide a chemically conditioned surface prior to coating.

1.3 Details of the supplier of the Safety Data Sheet

Supplier
Propspeed International Limited
PO Box 83232
Edmonton
Auckland
New Zealand
www.propspeed.com

Telephone +64 9 524 1470
Telefax +64 9 813 5246

E-mail (competent person) info@propspeed.com

1.4 Emergency telephone number

Emergency number +64 4 917 9888 (ChemCall)
(24h/24 – 365 d/year)

Section 2 - Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Hazard class	Hazard category	H-Code
Skin corrosion/irritation	Category 1	H314
Acute toxicity	Category 4	H302
		H312
		H332

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

UFI: THYX-W14U-V00A-NTRC

Hazard pictograms:



Signal word: Danger

Hazard statements:
[H-Code: Hazard information]
H314: Causes severe skin burns and eye damage.
H302 + H312 + H332: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Precautionary statements:
[P-Code: Safety information]
General
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
Prevention
P260: Do not breathe fume and vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
Intervention
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER/doctor.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Elimination

P501: Dispose of contents/container to an approved waste disposal plant.

Reduced labelling (≤ 125 ml) according to Regulation (EC) No. 1272/2008. Derogations as referred to in section 1.5.2.1. of Annex I.

Hazard pictograms:



Signal word: Danger

Hazard statements:
H314: Causes severe skin burns and eye damage.
H302 + H312 + H332: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Precautionary statements:
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P260: Do not breathe fume and vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER/doctor.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 3 - Composition/information on ingredients

3.1 Substances
Not applicable

3.2 Mixtures
Description of the mixture
Aqueous solution of phosphoric acid.

<Hazardous ingredients>

CAS No.	CE No. REACh registration No.	Substance	Concentration %	Classification according to Regulation (EC) No. 1272/2008	
7664-38-2	231-633-2 01-2119485924-24	Orthophosphoric acid Index REACh No. 015-011-00-6	5 - 10	Skin Corr. 1B	H314
111-76-2	203-905-0 01-2119475108-36	2-Butoxyethanol Index REACh No. 603-014-00-0	< 5	Skin Irrit. 2 Eye Irrit. 2 Acute Tox. 4 Acute Tox. 3	H315 H319 H302 H331

Also contains surfactants and water which are not considered as hazardous according to Regulation (EC) No. 1272/2008.

Section 4 - First aid measures

4.1 Description of first aid measures
General information:
- First aider: pay attention to self-protection.
- Remove victim to safety. Remove contaminated clothing.
- Inform all medical personnel of the materials involved so that the appropriate individual protection measures are observed and to avoid spreading contamination.

Following inhalation:
- Remove victim to fresh air and keep at rest in a position comfortable for breathing. Breathe fresh air.
- Seek medical attention. Show these instructions and label.
- If not breathing, give artificial respiration and call a doctor/physician immediately.

Following skin contact:
- Remove contaminated clothing immediately.
- Wash skin with soap and plenty of water. Continue to rinse for at least 10-15 minutes.

- Shower immediately in case of significant contamination. Risk of serious poisoning if significant contact with skin occurs.
- Seek medical attention. Acid burns require immediate medical attention.

Following eye contact:
- Flush immediately with plenty of flowing water for at least 15 minutes. Hold eyelids apart to rinse the entire surface of the eye.
- Protect the second eye if not affected.
- Remove contact lenses if those can be easily removed.
- Seek medical attention.

Following ingestion:
- Never give anything by mouth to an unconscious person.
- If victim is conscious, rinse mouth.
- Do NOT induce vomiting. (Risk of perforation of the oesophagus.)
- Call a doctor/physician immediately. Show these instructions and label.

4.2 Most important symptoms and effects, both acute and delayed
Irritation, dizziness, drowsiness, excitement, unconsciousness, nausea, vomiting, migraine, insomnia, ataxia, spasm, shock
Eye: serious eye damage/irritation, conjunctivitis, blindness
Skin: severe burns
Inhalation: irritation of the throat and airways, cough, breathing difficulties, pain
Ingestion: corrosion, vomiting, damage / perforation of the oesophagus and stomach, severe oedema

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Contains phosphoric acid.

Section 5 – Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media:
Water spray.
Remove safely flammable containers from danger zone.

Unsuitable extinguishing media:
Strong water jet.

5.2 Special hazards arising from the substance or mixture
Combustible liquid.
Dihydrogen, a flammable gas, may be liberated when in contact with most metals. Thermal decomposition can lead to release of hazardous flammable gas and of irritating vapours: phosphorus oxides, carbon monoxide (CO), carbon dioxide (CO_2)

and peroxides. Can form explosive mixtures with air when heated. Vapours are heavier than air, they may spread along floors form explosive mixtures with air. Containers may explode when heated.

5.3 Advice for firefighters

Highly corrosive in the event of fire. Wear appropriate protective equipment: splash suit including footwear. Wear a self-contained breathing apparatus. Fight fire with normal precautions from a reasonable distance to avoid any contact. Keep containers cool area in order to avoid further damage. Use water spray to cool containers. Contain spillage far away from containers and equipment made of aluminium or zinc. Use water spray to reduce gases, fumes and vapours.
Prevent fire extinguishing water from contaminating drains and surface water, collect separately. Follow the general fire precautions indicated in the workplace.

Section 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear personal protective equipment (see section 8).
- Provide adequate ventilation.
- Do NOT touch the product and avoid contact with skin, eyes and clothing.
- Remove all sources of ignition and take precautionary measures against static discharges.
- Do NOT breathe vapour/spray.
- Non-emergency personnel: evacuate the danger area, observe emergency procedures.

6.2 Environmental precautions

Do not allow to enter drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Do not drain away with water. Observe possible material restrictions (see section 7 and 10).

Soak up spillage with absorbent, non-flammable, inert materials (sand, ground, etc.). Keep spillage away from drains, waters, basements and enclosed spaces. Place spillage in clean polyethylene container with tight-fitting lid for disposal, with indication of the content. Dispose of as special waste in compliance with local regulations. Disposal considerations: see section 13. Ventilate and clean affected area. Neutralize acid residues with soda or lime.

6.4 Reference to other sections

Incompatible materials: see section 7 and 10.

Personal protective equipment: see section 8.

Disposal considerations: see section 13.

Section 7 - Handling and storage

7.1 Precautions for safe handling

- Read label before use and observe label precautions.
- Provide adequate ventilation when using.
- Wear personal protective clothing and equipment as per section 8.
- Do not breathe fume and vapours.
- Avoid contact with skin, eyes and clothing.
- Contaminated clothing should be removed immediately and must be washed before reuse.
- Clean contaminated surfaces.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs.
- Keep container tightly closed when not in use.
- Keep away from incompatible materials listed in section 10.
- Keep away from heat, sparks, open flames and hot surfaces. — No smoking.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools and take precautionary measures against static discharges.
- Observe industry health and safety good practices.
- Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

- Keep out of reach of children.
- Store in a dry, cool and well-ventilated place.
- Keep/store only in original container. Store away from corrosive materials.
- Protect containers from physical damage and inspect regularly for deficiencies or leaks.
- Keep containers tightly closed.
- Keep away from heat, sparks, open flames, hot surfaces and any source of ignition.
- Protect from sunlight.
- Keep away from water and moisture.
- Store away from incompatible materials as detailed in section 10.
- Do not use metallic containers.
- Store locked-up, in an area accessible only to trained and authorized personnel.
- Recommended storage temperature: < 25 °C

7.3 Specific end use(s)

No specific use provided except for that mentioned in section 1.2.

Section 8 - Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits (WELs) for chemical substances established nationally:

- **UK:** EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated Fourth Edition 2020. Published with the permission of the Health and Safety Executive on behalf of the Controller of Her Majesty's Stationery Office.
- **IRE:** 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulation (2001-2019). Published by the Health and Safety Authority.

And in the Community:

- **EU:** Directive 2000/39/EC.
  https://osha.europa.eu/en/legislation/directives/commission-directive-2006-15-ec

8.1.1 Operational Exposure Limits (OEL)

Ingredient	France		Italy		Spain	
	TWA	STEL	TWA	STEL	TWA	STEL
Orthophosphoric Acid	0.2 ppm, 1 mg/m3	0.5 ppm, 2 mg/m3	1 mg/m3	2mg/m3	1 mg/m3	2mg/m3
2-Butoxyethanol	10 ppm, 49 mg/m3	50 ppm, 246 mg/m3	20 ppm, 98 mg/m3	50 ppm, 246 mg/m3	20 ppm, 98 mg/m3	50 ppm, 245 mg/m3

Ingredient	Netherlands		Greece		Croatia	
	TWA	STEL	TWA	STEL	TWA	STEL
Orthophosphoric Acid	1 mg/m3	2mg/m3	-	-	-	-
2-Butoxyethanol	20.4 ppm, 100 mg/m3	50 ppm, 246 mg/m3	-	-	-	-

(1) TWA Time-weighted average (long-term exposure limit): a value in relation to an 8-hour time-weighted average reference period

(2) STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute reference period

8.1.2 Control Parameters

Derived No Effect Level (DNEL)

	Workers

Component	Exposure	Acute / short-term Local Effects	Acute / short-term Systemic Effects	Long-term Local Effects	Long-term Systemic Effects
Orthophosphoric acid	Inhalation	2 mg/m³	-	1 mg/m³	10.7 mg/m³
	Dermal	-	-	-	
2-Butoxyethanol	Inhalation	246 mg/m³	1,091 mg/m³		98 mg/m³
	Dermal	-	89 mg/kg bw/day	-	125 mg/kg bw/day

		General population			
Component	**Exposure**	**Acute / short-term Local Effects**	**Acute / short-term Systemic Effects**	**Long-term Local Effects**	**Long-term Systemic Effects**
Orthophosphoric acid	Inhalation	-	-	360 µg/m³	4.57 mg/m³
	Dermal	-	-	-	
	Oral	-	-	-	100 µg/kg bw/day
2-Butoxyethanol	Inhalation	147 mg/m³	426 mg/m³		59 mg/m³
	Dermal	-	89 mg/kg bw/day	-	75 mg/kg bw/day
	Oral	-	26,7 mg/kg bw/day	-	6,3 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Component	Environmental protection objective	PNEC Value
Orthophosphoric acid	No data available.	
2-Butoxyethanol	Freshwater	8.8 mg/l
	Intermittent releases (freshwater)	26.4 mg/l
	Sediment (freshwater)	34.6 mg/kg
	Marine water	880 µg/l
	Sediment (marine water)	3.46 mg/kg
	Soil	2.33 mg/kg
	Sewage treatment plant (STP)	463 mg/l

8.2 Exposure controls

8.2.1 Appropriate engineering controls

General health and safety measures

Provide adequate ventilation. Mechanical ventilation is required when generating vapours and fumes. Do not breathe vapours or spray mist. Wear appropriate personal protective clothing and equipment. Avoid contact with eyes, skin, and clothing. Ensure that eyewash stations and emergency shower are close to the

workstation location. Take off all contaminated clothing immediately. Personal protective clothing must be kept separate from other clothes. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly before breaks and after work. Warn cleaning personnel of chemical's hazardous properties. Avoid any exposure for pregnant women. Observe industry health and safety good practices.

8.2.2 Personal protective equipment

Eye/face protection
Use tight fitting safety goggles or face shield, with side protection. European standard EN 166.
Avoid wearing contact lenses.

Hand protection
Protective gloves must be worn at all times.

- Type of material (recommended): Nitrile rubber protective gloves.
  Material thickness: > 0.3 mm.
  Breakthrough times of the glove material: > 480 min.
  European standard EN 374.
- Type of material (recommended): Butyl rubber protective gloves.
  Material thickness: > 0.7 mm.
  Breakthrough times of the glove material: > 240 min.
  European standard EN 374.

Other types of gloves can be recommended by the glove supplier.
Inspect gloves prior to use. Be aware that the liquid may penetrate the gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the risk of cuts, abrasion and contact time. Warning: due to the many influencing factors (e.g. temperature), the duration of use of a chemical protective glove may be significantly shorter than the breakthrough times determined by the tests. Frequent change is advisable. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Ensure proper glove removal technique to avoid skin contact with contaminated surfaces. Dispose of contaminated gloves according to local laws and good workplace practices.

Skin and body protection
Wear acid-resistant and long-sleeved impervious protective clothing. Wear rubber protective footwear.

Respiratory protection

Use appropriate certified respirator when there is a risk of inhalation:

- When adequate ventilation cannot be provided
- When exposure limits are exceeded
- When vapours/aerosols are generated.

Use appropriate personal protective equipment according to the concentrations and quantities of hazardous substances in the workplace, and in accordance with European standards NF EN.
If a filtering device can be used, it must be fitted with a type E or B filter.
Observe the maximum wearing times of respiratory protection devices. Respiratory protective equipment must be the correct fit and be used and maintained properly.
The employer must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the manufacturer.



8.2.3 Environmental exposure controls
Do not let product enter drains, surface and ground water.

Section 9 – Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	transparent, colourless
Odour	solvent
Odour threshold	data not available
pH	< 2 at 20 °C
Melting point/freezing point	data not available
Boiling point and boiling range	> 100 °C
Flash point	64 °C
Evaporation rate	data not available
Flammability	combustible
Explosive limits	data not available
Vapour pressure	data not available
Density	data not available
Relative vapour density	data not available

Solubility	soluble in water
Partition coefficient (n-octanol/water)	data not available
Specific gravity	1.10 – 1.20 g/cm^3
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Molecular mass	data not available

Section 10 – Stability and reactivity

10.1 Reactivity

Stable under normal handling and storage conditions.
Other important information may be mentioned in other parts of this chapter.

10.2 Chemical stability

Stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

When heated, vapours may form explosive mixture with air. May form peroxides with air.
Violent reaction with: alkalis, metal oxides, strong oxidisers
Risk of formation of hydrogen, a flammable gas, with: alkali metals, metal alloy
Release of hazardous gas and vapours with: aluminium

10.4 Conditions to avoid

Keep away from heat, open flames and sources of ignition. Avoid moisture.
Avoid prolonged exposure to light. Avoid extreme temperature variations.
Keep away from incompatible materials.

10.5 Incompatible materials

Metals (aluminium, iron compounds, zinc, steel, etc.), strong oxidizing agents, bases, alcohols, amines, halogenated agents.
Keep away from alkalis and strong oxidizing agents. (Releases hydrogen in the presence of metals.)
Keep away from food and from empty food/drink containers.
See 10.3 for more details.

10.6 Hazardous decomposition products

May liberate hydrogen, a flammable and explosive gas, when in contact with metals (iron, zinc, aluminium, etc.)

Thermal decomposition can lead to release of hazardous flammable gas and of irritating vapours: phosphorus oxides, carbon monoxide (CO), carbon dioxide (CO_2) and peroxides.

Section 11 – Toxicological information

11.1 Information on toxicological effects

A. COMPONENTS

[Orthophosphoric acid]

Acute toxicity

LD50 (oral)	1,530 mg/kg (rat)
LC50 (inhalation)	> 213 mg/m^3/4h (rat)
	1,689 mg/m^3/1h (rabbit)
LD50 (dermal)	2,740 mg/kg (rabbit)

Skin corrosion/irritation
Causes severe skin burns/irritation and burns/irritation of respiratory and digestive mucous membrane.

Eye damage/irritation
Causes severe eye damage.

Skin sensitization/Sensitization to the respiratory tract
Causes severe airways irritation.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available. The International Agency for Research on Cancer (IARC) has classified strong inorganic acid mists as group 1 human carcinogens.

Reproductive toxicity
Fetotoxic for rats exposed to high concentration by inhalation.

Teratogenicity
No data available.

Specific target organ toxicity (single or repeated exposure)
No data available.

Source: French INRS

[2-Butoxyethanol]

Acute toxicity

LD50 (oral) 1,414 mg/kg (guinea pig)
LC50 (inhalation) 400 ppm/7h (guinea pig)
LD50 (dermal) 435 mg/kg (rabbit)

(ECHA)

Skin corrosion/irritation
Causes skin and mucosal irritation.

Eye damage/irritation
Causes irritation.

Skin sensitization/Sensitization to the respiratory tract
No data available.

Germ cell mutagenicity
In vitro and in vivo genotoxicity: negative.

Carcinogenicity
No data available.

Reproductive toxicity
2-Butoxyethanol causes testicular effects only at high doses and always in association with significant systemic toxicity.

Teratogenicity
No teratogenic effects observed.

Specific target organ toxicity (single or repeated exposure)
No data available.

Source: French INRS

B. MIXTURE

Acute toxicity

Lethal dose (oral)	No specific data on mixture.
Lethal dose (dermal)	No specific data on mixture.
Lethal concentration (inhalation)	No specific data on mixture.

Skin corrosion/irritation
Conclusion/summary on mixture Causes skin and mucosal burns.

Eye damage/irritation
Conclusion/summary on mixture Causes severe eye damage/irritation.

Skin sensitization/Sensitization to the respiratory tract
Conclusion/summary on mixture Harmful if inhaled and in contact with skin.

Germ cell mutagenicity
Conclusion/summary on mixture No specific data on mixture.

Carcinogenicity

Conclusion/summary on mixture No specific data on mixture.

Reproductive toxicity
Conclusion/summary on mixture No specific data on mixture.

Specific target organ toxicity - single exposure
Conclusion/summary on mixture No specific data on mixture.

Specific target organ toxicity - repeated exposure
Conclusion/summary on mixture No specific data on mixture.

Aspiration hazard
No specific data on mixture.

11.2 Further information

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Skin irritant. Symptoms may include redness, burns, and skin cracking.
If in eyes, causes irritation. Symptoms include itching, burns and redness.
May cause moderate respiratory tract irritation.
Repeated excessive skin exposure may cause severe skin irritation and may increase the risk of allergic reactions.
Other dangerous properties cannot be excluded.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12 – Ecological information

12.1 Toxicity

A. COMPONENTS

Orthophosphoric acid	Fish wild guppy (Gambusia affinis) LC50 – 138 mg/l – 96h Daphnia (Daphnia magna) EC50 – 100 mg/l – 48h – static Algae (Desmodesmus subspicatus) – EC50r – 100 mg/l – 72h - static
2-Butoxyethanol	Fish rainbow trout (Oncorhynchus mykiss) LC50 – 1,474 mg/l – 96h

B. MIXTURE

No data available.

12.2 Persistence and degradability

A. COMPONENTS

Orthophosphoric acid	No data available.
2-Butoxyethanol	Aerobic biodegradability – Exposure time 28d Result: > 90 %: Readily biodegradable

B. MIXTURE

No data available.

12.3 Bioaccumulative potential

A. COMPONENTS

Orthophosphoric acid	No data available.
2-Butoxyethanol	Partition coefficient: n-octanol/water log Pow: 0.81 (25 °C) Does not significantly accumulate in organisms. Bioaccumulation is not expected.

B. MIXTURE

No data available.

12.4 Mobility in soil

A. COMPOSANTS

Orthophosphoric acid	No data available. Likely to be mobile in the environment due to its solubility in water.
2-Butoxyethanol	No data available. Likely to be mobile in the environment due to its solubility in water.

B. MIXTURE

No data available.

12.5 Results of PBT & vPvB assessment

A. COMPONENTS

Orthophosphoric acid	Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).
2-Butoxyethanol	

B. MIXTURE

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effect

Avoid release to the environment.

Section 13 – Disposal considerations

13.1 Waste treatment methods

Dispose of product and container as hazardous waste. Dispose in accordance with European directives on waste and hazardous waste. Dispose of in accordance with local regulations. Keep in original container. Handle empty containers carefully, as residual vapours are flammable.

Product/packaging disposal

Dispose of containers contaminated by the product in accordance with local or national legal provisions. The European Waste Catalogue (2000/532/EC) classification of this product. Waste codes / waste designations according to LoW: 11 01 13* degreasing wastes containing hazardous substances. If this product is mixed with other wastes, the original waste product code may no longer apply, and the appropriate code should be assigned. For further information contact your local waste authority. Waste should not be disposed of by release to sewers. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers.

Special precautions: Use appropriate protective equipment for the removal and / or disposal of this product.

HP Codes: HP4, HP6, HP8

Section 14 – Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1805	UN1805	UN1805
14.2 UN proper shipping name	PHOSPHORIC ACID	PHOSPHORIC ACID	PHOSPHORIC ACID
14.3 Transport hazard class(es)	 8	 8	 8
14.4 Packing group	III	III	III
14.5 Environmental hazard	No	No	No

Hazchem code 2R.

14.6 Special precautions for user

Transport with local users: always transport in packaging that is correct and secure. Ensure that persons transporting the product are aware of the measures to be taken if an accident occurs or in case of accidental release.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not available.

Section 15 – Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe EU and national regulations. For labelling information, please refer to section 2.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III): Not applicable.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out by the manufacturer for this product.

Section 16 – Other information

Product

The information provided in this document is based on our knowledge at the date of its publication.

The properties of the product described do not constitute a warranty in the legal sense of the term. The provision of this document does not release the purchaser of the product from his responsibility to comply with legislations and regulations in force for this product. This statement applies for the resale and distribution of the product, or of substances or goods containing this product, in other jurisdictions and having regard to the industrial and commercial property rights of third parties. If the product described is transformed or mixed with other substances or materials, the information contained in this document may not be valid for the new product thus manufactured, unless explicitly mentioned. In case of repackaging of the product, the customer is required to provide the required safety information.

Legend

CAS	Chemical Abstracts Service
ppm	part per million
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
EC50	Effective Concentration 50%
vPvB	very Persistent and very Bioaccumulative
WEL	Workplace Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration
REACh	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemical

CLP	Regulation on Classification, Labelling and Packaging of substances and mixtures
ADR/RID	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association

Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Acute Tox.	Acute toxicity