

# ZOK MX ZOK International Group

Chemwatch Hazard Alert Code: 3

Version No: 1.1 Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 Issue Date: **10/04/2023** Print Date: **11/04/2023** S.REACH.GB.EN

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Produce	et Identifier

Product name	ZOK MX			
Chemical Name	Not Applicable			
Synonyms	Not Available			
Chemical formula	Not Applicable			
Other means of identification	UFI:F500-W02C-K003-Q9Q6			

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

Relevant identified uses	Gas Turbine Compressor Cleaning Fluid	
Uses advised against	No specific uses advised against are identified.	

## 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	ZOK International Group
Address	Airworthy House Elsted, Midhurst West Sussex United Kingdom
Telephone	+44 (0) 333 700 2727
Fax	Not Available
Website	www.zok.com
Email	zok@zok.com

## 1.4. Emergency telephone number

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Association / Organisation	ZOK International Group
Emergency telephone numbers	+44 (0) 333 700 2727 (08:30 - 17:00 GMT)
Other emergency telephone numbers	Not Available

# **SECTION 2 Hazards identification**

#### 2.1. Classification of the substance or mixture

Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]	H318 - Serious Eye Damage/Eye Irritation Category 1, H302 - Acute Toxicity (Oral) Category 4, H315 - Skin Corrosion/Irritation Category 2
Legend:	1. Classified by Chernwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

## 2.2. Label elements

Hazard pictogram(s)	
Signal word	Danger

#### Hazard statement(s)

H318	Causes serious eye damage.
H302	Harmful if swallowed.
H315	Causes skin irritation.

# Supplementary Phrases

Not Applicable

#### Precautionary statement(s) Prevention

recationaly statement(s) revention						
P280         Wear protective gloves, protective clothing, eye protection and face protection.						
Precautionary statement(s) Res	sponse					
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
Precautionary statement(s) Sto Not Applicable	rage					
Precautionary statement(s) Dis	posal					

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# 2.3. Other hazards

Cumulative effects may result following exposure\*.

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

# **SECTION 3 Composition / information on ingredients**

## 3.1.Substances

See 'Composition on ingredients' in Section 3.2

# 3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1.69011-36-5 2.500-241-6 3.Not Available 4.Not Available	10-30	tridecanol, branched, ethoxylated	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1; H302, H315, H318, EUH066 <sup>[1]</sup>	Not Available	Not Available
1.5131-66-8 2.225-878-4 3.603-052-00-8 4.Not Available	225-878-4 propylene_glycol Skin C 603-052-00-8 1-5 monobutyl ether - aloba isomer Damag		Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2; H315, H319 <sup>[2]</sup>	Not Available	Not Available
Legend:	1: Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties				

# **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> </ul> Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: <ul> <li>INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.</li></ul>

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See Section 11

#### 4.3. Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

## BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary. ۲
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema. Monitor and treat, where necessary, for shock.
- Anticipate seizures.
  - DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- ۲ Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- ۶ Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994 Treat symptomatically.

## **SECTION 5 Firefighting measures**

## 5.1. Extinguishing media

Water spray or fog.

#### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
5.3. Advice for firefighters	
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Combustion products include:</li> <li>,</li> <li>,</li> <li>,</li> <li>,</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>

#### **SECTION 6 Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

Minor Spills	Environmental hazard - contain spillage. ▶ Remove all ignition sources.
Major Spills	Environmental hazard - contain spillage. Moderate hazard.

## 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

	5
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Fire and explosion protection	See section 5
Other information	Store in original containers.

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## 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

# 7.3. Specific end use(s)

See section 1.2

# **SECTION 8 Exposure controls / personal protection**

# 8.1. Control parameters

8.1. Control parameters		
Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
tridecanol, branched, ethoxylated	Dermal 2 080 mg/kg bw/day (Systemic, Chronic) Inhalation 294 mg/m <sup>3</sup> (Systemic, Chronic) Dermal 1 250 mg/kg bw/day (Systemic, Chronic) * Inhalation 87 mg/m <sup>3</sup> (Systemic, Chronic) * Oral 25 mg/kg bw/day (Systemic, Chronic) *	0.074 mg/L (Water (Fresh)) 0.007 mg/L (Water - Intermittent release) 0.015 mg/L (Water (Marine)) 0.604 mg/kg sediment dw (Sediment (Fresh Water)) 0.06 mg/kg sediment dw (Sediment (Marine)) 0.1 mg/kg soil dw (Soil) 1.4 mg/L (STP)
propylene glycol monobutyl ether - alpha isomer	Dermal 52 mg/kg bw/day (Systemic, Chronic) Inhalation 147 mg/m <sup>3</sup> (Systemic, Chronic) Dermal 50 % in mixture (weight basis) (Local, Chronic) Dermal 50 % in mixture (weight basis) (Local, Acute) Dermal 22 mg/kg bw/day (Systemic, Chronic) * Inhalation 43 mg/m <sup>3</sup> (Systemic, Chronic) * Oral 12.5 mg/kg bw/day (Systemic, Chronic) * Dermal 50 % in mixture (weight basis) (Local, Chronic) * Dermal 50 % in mixture (weight basis) (Local, Acute) *	0.525 mg/L (Water (Fresh)) 0.052 mg/L (Water - Intermittent release) 5.25 mg/L (Water (Marine)) 2.36 mg/kg sediment dw (Sediment (Fresh Water)) 0.236 mg/kg sediment dw (Sediment (Marine)) 0.16 mg/kg soil dw (Soil) 10 mg/L (STP)

\* Values for General Population

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

## Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
ZOK MX	Not Available	Not Available		Not Available
la ma di su t			Device of IDLU	
Ingredient	Original IDLH		Revised IDLH	
tridecanol, branched, ethoxylated	Not Available		Not Available	
propylene glycol monobutyl ether - alpha isomer	Not Available		Not Available	

# Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit		
tridecanol, branched, ethoxylated	E	≤ 0.1 ppm	
propylene glycol monobutyl ether - alpha isomer	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

# 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
8.2.2. Individual protection measures, such as personal protective equipment	

Eye and face protection	Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.
Body protection	See Other protection below
Other protection	► Overalls.

#### **Respiratory protection**

Type A-P Filter of sufficient capacity.

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### 8.2.3. Environmental exposure controls

See section 12

# **SECTION 9** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Colourless		
Physical state	Liquid	Relative density (Water = 1)	1.01
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8.2-8.5	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	7.40
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>100	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	41.2
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

## **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Unstable in the presence of incompatible materials.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

#### **SECTION 11 Toxicological information**

## 11.1. Information on toxicological effects

	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC
Inhaled	Directives using animal models).
	Inhalation of vapours may cause drowsiness and dizziness.

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Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Nonionic surfactants may produce localised irritation of the oral or gastrointestinal lining and induce vomiting and mild diarrhoea.					
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Non-ionic surfactants cause less irritation than other surfactants as they have less ability to denature protein in the skin. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.					
Eye	If applied to the eyes, this material causes severe eye of Non-ionic surfactants can cause numbing of the cornea		used by other agents and leads to corneal injury.			
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. Prolonged or repeated skin contact may cause degreasing, followed by drying, cracking and skin inflammation.					
	τοχιςιτγ	IRRITATION				
ZOK MX	Not Available	Not Available				
	ΤΟΧΙΟΙΤΥ	IRRITATION				
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): irritar	nt *			
tridecanol, branched,	Oral (Rat) LD50: 1080 mg/kg <sup>[2]</sup>	Eye: no adverse e	ffect observed (not irritating) <sup>[1]</sup>			
ethoxylated		Skin (rabbit): non-				
		Skin: no adverse e	effect observed (not irritating) <sup>[1]</sup>			
	ΤΟΧΙΟΙΤΥ	IRRITATION				
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 15 m	gSEVERE			
propylene glycol monobutyl	Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: adverse effect	ct observed (irritating) <sup>[1]</sup>			
ether - alpha isomer		Skin (rabbit): 500 mg OPEN - mild				
		Skin: adverse effe	ct observed (irritating) <sup>[1]</sup>			
Legend:	1. Value obtained from Europe ECHA Registered Subsi specified data extracted from RTECS - Register of Toxic	-	ed from manufacturer's SDS. Unless otherwise			
ZOK MX	Tri-ethylene glycol ethers undergo enzymatic oxidation	to toxic alkoxy acids.				
TRIDECANOL, BRANCHED, ETHOXYLATED	* [BASF Canada]					
PROPYLENE GLYCOL MONOBUTYL ETHER - ALPHA ISOMER	For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether acetate (DPMA) and tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series.					
ZOK MX & TRIDECANOL, BRANCHED, ETHOXYLATED	Humans have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents and other cleaning products. Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer.					
Acute Toxicity	✓	Carcinogenicity	×			
Skin Irritation/Corrosion	✓	Reproductivity	×			
Serious Eye Damage/Irritation	*	STOT - Single Exposure	×			
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×			
Mutagenicity	×	Aspiration Hazard	×			
<u> </u>		Legend: X – Data either no				

# 11.2 Information on other hazards

# 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

## 11.2.2. Other information

See Section 11.1

# **SECTION 12 Ecological information**

# 12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
ΖΟΚ ΜΧ	Not Available	Not Available	Not Available	Not Available	Not Available

	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	48h	Crustacea	1-10mg/l	Not Available
tridecanol, branched, ethoxylated	LC50	96h	Fish	2.3mg/l	Not Available
omoxylated	EC50	72h	Algae or other aquatic plants	1-10mg/l	Not Available
	EC50	48h	Crustacea	1-10mg/l	Not Available
	Endpoint	Test Duration (hr)	Species V	alue	Source
	EC0(ECx)	48h	•	100mg/l	2
propylene glycol monobutyl	EC0(ECx) LC50		Crustacea >	100mg/l 560<1000mg/l	2 2
propylene glycol monobutyl ether - alpha isomer		96h	Crustacea > Fish >	0	
	LC50	96h 72h .	Crustacea     >       Fish     >       Algae or other aquatic plants     5	560<1000mg/l	2
	LC50 EC50	96h	Crustacea     >       Fish     >       Algae or other aquatic plants     5       Algae or other aquatic plants     5	560<1000mg/l 19mg/l	2 2

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. For Surfactants: Kow cannot be easily determined due to hydrophilic/hydrophobic properties of the molecules in surfactants.

**DO NOT** discharge into sewer or waterways.

## 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
propylene glycol monobutyl ether - alpha isomer	LOW	LOW

## 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
propylene glycol monobutyl ether - alpha isomer	LOW (LogKOW = 0.9842)

# 12.4. Mobility in soil

Ingredient	Mobility
propylene glycol monobutyl ether - alpha isomer	HIGH (KOC = 1.289)

## 12.5. Results of PBT and vPvB assessment

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?			No
vPvB			No

#### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

# **SECTION 13 Disposal considerations**

# 13.1. Waste treatment methods

Product / Packaging disposal <ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> </ul>		
Waste treatment options	Not Available	
Sewage disposal options	Not Available	

# **SECTION 14 Transport information**

## Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

# Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable				
14.2. UN proper shipping name	Not Applicable	Not Applicable			
14.3. Transport hazard	Class Not Applica	ble			
class(es)	Subsidiary risk Not Applica	ble			
14.4. Packing group	Not Applicable				
14.5. Environmental hazard	Not Applicable	Not Applicable			
	Hazard identification (Kemler)	Not Applicable			
	Classification code	Not Applicable			
14.6. Special precautions for	Hazard Label	Not Applicable			
user	Special provisions	Not Applicable			
	Limited quantity	Not Applicable			
	Tunnel Restriction Code	Not Applicable			

# Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable				
14.2. UN proper shipping name	Not Applicable				
14.3. Transport hazard class(es)	ICAO/IATA Class	Not Applicable Not Applicable			
01000(00)	ERG Code	Not Applicable			
14.4. Packing group	Not Applicable				
14.5. Environmental hazard	Not Applicable				
	Special provisions		Not Applicable		
	Cargo Only Packing Instructions		Not Applicable		
	Cargo Only Maximum Qty / Pack		Not Applicable		
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable		
	Passenger and Cargo Maximum Qty / Pack		Not Applicable		
	Passenger and Cargo	Limited Quantity Packing Instructions	Not Applicable		
	Passenger and Cargo	Limited Maximum Qty / Pack	Not Applicable		

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	IMDG Class     Not Applicable       IMDG Subrisk     Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	EMS NumberNot ApplicableSpecial provisionsNot ApplicableLimited QuantitiesNot Applicable	

## Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	Not Applicable Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazard	Not Applicable

Classification code	Not Applicable
Special provisions	Not Applicable
Limited quantity	Not Applicable
Equipment required	Not Applicable
Fire cones number	Not Applicable
	Special provisions Limited quantity Equipment required

## 14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

# 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
tridecanol, branched, ethoxylated	Not Available
propylene glycol monobutyl ether - alpha isomer	Not Available

## 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
tridecanol, branched, ethoxylated	Not Available
propylene glycol monobutyl ether - alpha isomer	Not Available

## **SECTION 15 Regulatory information**

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

tridecanol, branched, ethoxylated is found on the following regulatory lists Not Applicable

# propylene glycol monobutyl ether - alpha isomer is found on the following regulatory lists

Great Britain GB mandatory classification and labelling list (GB MCL)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

## Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (tridecanol, branched, ethoxylated; propylene glycol monobutyl ether - alpha isomer)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (tridecanol, branched, ethoxylated)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

## **SECTION 16 Other information**

Revision Date	10/04/2023
Initial Date	10/04/2023

#### Full text Risk and Hazard codes

H319 Causes serious eye irritation.

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

## Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Serious Eye Damage/Eye Irritation Category 1, H318	Calculation method
Acute Toxicity (Oral) Category 4, H302	On basis of test data
Skin Corrosion/Irritation Category 2, H315	Calculation method

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