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

1.1 Product identifier

Trade name	: AeroShell Compound 07
Product code	: 001A0037
Unique Formula Identifier	: 6642-J0UK-000D-2SW9
(UFI)	

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

Use of the Sub- stance/Mixture	:	Glycol for aircraft de-icing., For further details consult the Aer- oShell Book on www.shell.com/aviation.
Uses advised against	:	This product must be used, handled, and applied in accord- ance with the requirements of the equipment manufacturer's manuals, bulletins and other documentation. This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the sup- plier.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	Shell Italia Oil Products SRL Via Vittor Pisani 16 I-20124 Milano MI
Telephone	: (+39) 0200695000
Telefax	: (+39) 022484260
Contact for Safety Data Sheet	: If you have any enquiries about the content of this SDS please email lubricantSDS@shell.com

1.4 Emergency telephone number

: SHELL: (+39 02 3800.4461/2 (available 24h a day) Poison Centers (CAV) eligible for access to information for health emergency response: CAV Osp. Bambin Gesù Roma 06 68593726; CAV Policlinico "Umberto I" Roma 06-49978000; CAV Policlinico "A. Gemelli" Roma 06 3054343; CAV Milano 02 66101029; CAV Bergamo 800883300; CAV Pavia 0382 24444; CAV Verona 800011858; CAV Firenze 055 7947819; CAV Napoli 081 5453333; CAV Foggia 800183459.

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 127	2/2008)
Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Acute toxicity, Category 4, Oral	H302: Harmful if swallowed.
Specific target organ toxicity - repeated exposure, Category 2, Kidney	H373: May cause damage to organs through pro longed or repeated exposure if swallowed.

2.2 Label elements

Signal word

Labelling (REGULATION (EC) No 1272/2008)

2

Warning

Hazard pictograms



Hazard statements	:	 PHYSICAL HAZARDS: H226 Flammable liquid and vapour. HEALTH HAZARDS: H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure if swallowed. ENVIRONMENTAL HAZARDS: Not classified as environmental hazard according to CLP criteria.
Precautionary statements		Prevention:P210Keep away from heat, hot surfaces, sparks, openflames and other ignition sources. No smoking.P270Do not eat, drink or smoke when using this product.
		Response:P301 + P312IF SWALLOWED: Call a POISONCENTER/doctor if you feel unwell.P370 + P378In case of fire: Use appropriate media to extinguish.
		Storage: P403 + P235 Store in a well-ventilated place. Keep cool.
		Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

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Hazardous components which must be listed on the label: Contains ethanediol.

2.3 Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

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.

Intentional abuse, misuse or other massive exposure may cause multiple organ damage and or death.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature	:	Mixture of ethylene glycol, water and additives.
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Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Ethanediol	107-21-1	Acute Tox. 4; H302	85 - 95
	203-473-3	STOT RE 2; H373	
	603-027-00-1	(Kidney)	
	01-2119456816-28		
Ethanol	64-17-5	Flam. Liq. 2; H225	1 - 5
	200-578-6	Eye Irrit. 2; H319	
	603-002-00-5		
	01-2119457610-43	specific concentration	
		limit	
		Eye Irrit. 2	
		50 %	

For explanation of abbreviations see section 16.

:

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Not expected to be a health hazard when used under normal conditions.

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Ρ	rotection of first-aiders	: When administer appropriate perso incident, injury ar	ing first aid, ensure that you are wearing the onal protective equipment according to the nd surroundings.
lf	inhaled	: Remove to fresh transport to near	air. If rapid recovery does not occur, est medical facility for additional treatment.
Ir	n case of skin contact	: Remove contami ter and follow by If persistent irrita	nated clothing. Flush exposed area with wa- washing with soap if available. tion occurs, obtain medical attention.
Ir	n case of eye contact	: Flush eye with co Remove contact rinsing. If persistent irrita	ppious quantities of water. lenses, if present and easy to do. Continue tion occurs, obtain medical attention.
lf	swallowed	: If swallowed, do medical facility fo spontaneously, k Rinse mouth.	not induce vomiting: transport to nearest r additional treatment. If vomiting occurs eep head below hips to prevent aspiration.
4.2 Mo	ost important symptoms a	nd effects, both acut	e and delaved
4.2 Most important symptoms a Symptoms		 Kidney toxicity m increased or dec can include naus lumbar pain shor death. Not considered to ditions of use. Respiratory irritat porary burning se and/or difficulty b No specific hazat Eye irritation sign sation, redness, s Skin irritation sign sation, redness, s Ingestion may rea High concentration pression resulting tinued inhalation 	ay be recognized by blood in the urine or reased urine flow. Other signs and symptoms ea, vomiting, abdominal cramps, diarrhoea, thy after ingestion, and possibly narcosis and o be an inhalation hazard under normal con- tion signs and symptoms may include a tem- ensation of the nose and throat, coughing, reathing. The normal use conditions. Is and symptoms may include a burning sen- swelling, and/or blurred vision. Ins and symptoms may include a burning sen- swelling, and/or blisters. Sult in nausea, vomiting and/or diarrhoea. Ins may cause central nervous system de- g in headaches, dizziness and nausea; con- may result in unconsciousness and/or death.
4.3 In d T	dication of any immediate reatment	medical attention an : IMMEDIATE TRE Call a doctor or p Treat symptomat May cause signif May cause signif The preferred tre ical facility and us	d special treatment needed EATMENT IS EXTREMELY IMPORTANT! oison control center for guidance. ically. icant renal, respiratory, and CNS toxicity. icant acidosis. atment is immediate transportation to a med- se of appropriate treatment including possible

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		administration of a gastric aspiration. able and a delay of such medical atter may be appropria there are any sign sidered on a case Specific other trea izole, treatment of advice without del	activated charcoal, gastric lavage and or If none of the above are immediately avail- of more than one hour is anticipated before ntion can be obtained, induction of vomiting te using IPECAC syrup (Contraindicated if as of CNS depression). This should be con- by case basis following specialist advice. atments may include ethanol therapy, fomep- f acidosis and haemodialysis. Seek specialist lay.

SECTION 5: Firefighting measures

5.1	Extinguishing media		
	Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
	Unsuitable extinguishing media	:	Do not use water in a jet.
5.2	Special hazards arising from t	he	substance or mixture
	Specific hazards during fire- fighting	:	 Will float and can be reignited on surface water. Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).
	Further information	:	Keep adjacent containers cool by spraying with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tectiv	e equipment and emergency procedures
Personal precautions	:	6.1.1 For non emergency personnel:
		Avoid contact with skin and eyes.
		610 For omorgonou reenandereu

6.1.2 For emergency responders: Avoid contact with skin and eyes.

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6.2 Enviro	nmental precautions				
6.2 Environmental precautions :		: Shut off leaks, if possible sources propriate contain Prevent from sprusing sand, earth disperse the vape example by using against static disping and groundin Local authorities	Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.		
6.3 Metho	ds and material for co	ntainment and cleani			
Metho	ods for cleaning up	: Slippery when sp Prevent from spr or other containm Reclaim liquid dir Soak up residue	with an absorbent such as clay, sand or other		

6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet., For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet. Local authorities should be advised if significant spillages cannot be contained.

suitable material and dispose of properly.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures :	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Advice on safe handling :	Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. Use only in well-ventilated areas. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning mate- rials in order to prevent fires.
Product Transfer :	Wait 2 minutes after tank filling (for tanks such as those on road tanker vehicles) before opening hatches or manholes. Wait 30 minutes after tank filling (for large storage tanks)

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720	Conditio	ons for safe storage	inc	before opening has grounding and bo electrostatic charg late, electrostatic vapour mixtures of that may give rise accumulation of s limited to pumping splash filling, clea sampling, switch I and mechanical n static discharge e during pumping in discharge (≤ 1 m/ ter, then ≤ 7 m/s). pressed air for filli	atches or manholes. Even with proper nding, this material can still accumulate an ge. If sufficient charge is allowed to accumu- discharge and ignition of flammable air- can occur. Be aware of handling operations to additional hazards that result from the tatic charges. These include but are not g (especially turbulent flow), mixing, filtering, ning and filling of tanks and containers, oading, gauging, vacuum truck operations, novements. These activities may lead to .g. spark formation. Restrict line velocity order to avoid generation of electrostatic s until fill pipe submerged to twice its diame- Avoid splash filling. Do NOT use com- ng, discharging, or handling operations.
7.2 0	Further age sta	information on stor- bility	; INC : :	Must be stored in from sunlight, igni Use properly labe Keep container tig place. Store at ambient to Refer to section 1 ering the packagin Suitable material: steel or high dens	a diked (bunded) well- ventilated area, away tion sources and other sources of heat. led and closable containers. ghtly closed and in a cool, well-ventilated remperature. 5 for any additional specific legislation cov- ng and storage of this product. For containers or container linings, use mild ity polyethylene.
				Suitable material: cured epoxy paint Unsuitable materi	For container linings, use amine-adduct :. al: Aluminium, PVC.
	Contair	ner Advice	:	Polyethylene cont peratures becaus	ainers should not be exposed to high tem- e of possible risk of distortion.
7.3 S	Specific	end use(s)			
	Specific	c use(s)	:	Not applicable	
				See additional ref American Petrolections Arising out of National Fire Prot on Static Electricity	erences that provide safe handling practices: um Institute 2003 (Protection Against Igni- of Static, Lightning and Stray Currents) or ection Agency 77 (Recommended Practices ty).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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CAS-No.	Value type (Form	Control parameters	Basis	
	of exposure)			
107-21-1	TWA	20 ppm	IT OEL	
		52 mg/m3		
Further inform	ation: The notation '	Skin' attributes to the exposu	ire limit values	
and indicates	the possibility of abs	orption through the skin.		
	STEL	40 ppm	IT OEL	
		104 mg/m3		
Further inform	ation: The notation '	Skin' attributes to the exposu	ire limit values	
and indicates	the possibility of abs	sorption through the skin.		
	STEL	40 ppm	2000/39/EC	
		104 mg/m3		
Further information: Identifies the possibility of significant uptake through the				
skin, Indicative				
	TWA	20 ppm	2000/39/EC	
		52 mg/m3		
Further inform	ation: Identifies the	possibility of significant uptak	through the	
skin, Indicative				
	CAS-No. 107-21-1 Further inform and indicates Further inform skin, Indicative Further inform skin, Indicative	CAS-No. Value type (Form of exposure) 107-21-1 TWA Further information: The notation of and indicates the possibility of abs STEL Further information: The notation of and indicates the possibility of abs STEL Further information: The notation of and indicates the possibility of abs STEL Further information: The notation of and indicates the possibility of abs STEL Further information: Identifies the skin, Indicative TWA Further information: Identifies the skin, Indicative	CAS-No.Value type (Form of exposure)Control parameters107-21-1TWA20 ppm 52 mg/m3Further information: The notation 'Skin' attributes to the exposu and indicates the possibility of absorption through the skin.STEL40 ppm 104 mg/m3Further information: The notation 'Skin' attributes to the exposu and indicates the possibility of absorption through the skin.Further information: The notation 'Skin' attributes to the exposu and indicates the possibility of absorption through the skin.Further information: The notation 'Skin' attributes to the exposu and indicates the possibility of absorption through the skin.Further information: Identifies the possibility of significant uptak skin, IndicativeTWA20 ppm 52 mg/m3Further information: Identifies the possibility of significant uptak skin, Indicative	

Biological occupational exposure limits

No biological limit allocated.

8.2 Exposure controls

Engineering measures

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Do not ingest. If swallowed, then seek immediate medical assistance

Personal protective equipment

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

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E	ye protection	: If material is har protective eyew Approved to EU	ndled such that it could be splashed into eyes, ear is recommended. I Standard EN166.
Н	and protection		
	Remarks	: Where hand cor gloves approved US: F739) made suitable chemica gloves Suitabilit usage, e.g. freq sistance of glove glove suppliers. Personal hygien Gloves must on gloves, hands s cation of a non- For continuous through time of 480 minutes wh short-term/splas recognize that s may not be avai time maybe acc and replacemen a good predictor dependent on th Glove thickness depending on th	htact with the product may occur the use of d to relevant standards (e.g. Europe: EN374, e from the following materials may provide al protection. PVC, neoprene or nitrile rubber y and durability of a glove is dependent on uency and duration of contact, chemical re- e material, dexterity. Always seek advice from Contaminated gloves should be replaced. he is a key element of effective hand care. ly be worn on clean hands. After using hould be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- more than 240 minutes with preference for > ere suitable gloves can be identified. For sh protection we recommend the same but suitable gloves offering this level of protection ilable and in this case a lower breakthrough eptable so long as appropriate maintenance in regimes are followed. Glove thickness is not r of glove resistance to a chemical as it is he exact composition of the glove material. a should be typically greater than 0.35 mm he glove make and model.
S	kin and body protection	: Skin protection i work clothes. It is good praction	is not ordinarily required beyond standard ce to wear chemical resistant gloves.
R	espiratory protection	: No respiratory p conditions of us In accordance w tions should be If engineering co tions to a level w select respirator cific conditions of Check with resp Where air-filterin priate combinati Select a filter su and vapours [Ty meeting EN1438	protection is ordinarily required under normal e. with good industrial hygiene practices, precau- taken to avoid breathing of material. ontrols do not maintain airborne concentra- which is adequate to protect worker health, ry protection equipment suitable for the spe- of use and meeting relevant legislation. biratory protective equipment suppliers. ng respirators are suitable, select an appro- tion of mask and filter. hitable for combined particulate/organic gases r/pe A/Type P boiling point > 65°C (149°F)] 87 and EN143.
TI	hermal hazards	: Not applicable	

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SECTION 9: Physical and chemical properties

9.1	Information on basic physical	and	d chemical properties
	Physical state	:	Liquid at room temperature.
	Colour	:	colourless
	Odour	:	characteristic
	Odour Threshold	:	Data not available
	pour point	:	Method: Unspecified Not applicable
	Melting / freezing point		Data not available
	Initial boiling point and boiling range	:	> 100 °Cestimated value(s)
	Flammability		
	Flammability (solid, gas)	:	Data not available
	Lower explosion limit and upper	r ex	plosion limit / flammability limit
	Upper explosion limit / upper flammability limit	:	Typical 15 %(V)
	Lower explosion limit / Lower flammability limit	:	Typical 3 %(V)
	Flash point	:	54,4 °C Method: Unspecified
	Auto-ignition temperature	:	> 200 °C
	Decomposition temperature Decomposition tempera- ture	:	Data not available
	рН	:	Typical 6,9 Concentration: 100 %
	Viscosity Viscosity, dynamic	:	Data not available
	Viscosity, kinematic	:	12,8 mm2/s (20 °C) Method: Unspecified

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	Solubili Wat	ty(ies) er solubility	:	completely solub	le
	Solu	ubility in other solvents	:	Data not availabl	e
	Partitio octanol	n coefficient: n- /water	:	Data not availabl	e
	Vapour	pressure	:	Data not availabl	e (50 °C)
	Relative	e density	:	1,096 (15 °C)	
	Density	1	:	1,096 kg/dm3 (15 Method: Unspeci	5,5 °C) fied
	Relative	e vapour density	:	> 1	
	Particle Part	characteristics icle size	:	Data not availabl	e
9.2	Other ir	formation			
	Explosi	ve properties	:	Classification Co	de: Not classified
	Oxidizi	ng properties	:	Data not availabl	e
	Evapor	ation rate	:	Data not availabl	e
	Conduc	ctivity	:	This material is n	ot expected to be a static accumulator.
	Decom	position temperature	:	Data not availabl	e
	Molecu	lar weight	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

Stable.

No hazardous reaction is expected when handled and stored according to provisions

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Reacts with strong oxidising agents.
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10.4 Conditions to avoid

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.

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10.5 10.6	Incompatible materia Materials to avoid Hazardous decompos	Is : sition proc	Strong oxidisir	ig agents.
<u>850</u>	No decomposition if sto	bred and a	oplied as directe	d.
SEC			mation	
11.1	Information on hazar Information on likely ro exposure	d classes utes of :	as defined in R Skin and eye co hough exposure	egulation (EC) No 1272/2008 ontact are the primary routes of exposure alt- e may occur following accidental ingestion.
	Acute toxicity			
	Product:			
	Acute oral toxicity	:	LD50 (rat): > 50 Remarks: Harm	00 - 2.000 mg/kg hful if swallowed.
	Acute inhalation toxicit	y :	LC 50 (Rat): > Exposure time: Remarks: Low	5 mg/l 4 h toxicity
	Acute dermal toxicity	:	LD50 (Rabbit): Remarks: Low	> 5.000 mg/kg toxicity
	Components:			
	Ethanediol:			
	Acute oral toxicity	:	LD 50 (Rat, ma Method: Accep Remarks: Harm There is a mark rodents and ma The estimated This material ha lethal by ingest	le and female): > 2.000 mg/kg table non-standard method. If ul if swallowed. The difference in acute oral toxicity between an, man being more susceptible than rodents. The fatal dose for man is 100 milliliters (1/2 cup). The as also been shown to be toxic and potentially for to cats and dogs.
	Acute inhalation toxicit	y :	LC 50 (Rat, ma Exposure time: Test atmosphe Method: Literat Remarks: LC50 LC50 greater th Based on availa	le and female): > 2,5 mg/l 6 h re: Aerosol ure data 0 > 1.0 - <= 5.0 mg/l nan near-saturated vapour concentration. able data, the classification criteria are not met.
	Acute dermal toxicity	:	LD 50 (Mouse, Method: Literat Remarks: Base are not met.	male and female): > 2.000 mg/kg ure data d on available data, the classification criteria

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E /	E thanc Acute c	l: oral toxicity	:	LD50 Oral (Rat,	male and female): > 5.000 mg/kg
				Method: Test(s) 401 Remarks: Based are not met.	equivalent or similar to OECD Test Guideline
ŀ	Acute ir	nhalation toxicity	:	LC 50 (Rat, mal Exposure time: Test atmospher Method: Test(s) 403 Remarks: Based are not met.	e and female): > 124,7 mg/l 4 h e: vapour equivalent or similar to OECD Test Guideline d on available data, the classification criteria
Þ	Acute c	lermal toxicity	:	Remarks: Based are not met.	d on available data, the classification criteria
5	Skin co	prrosion/irritation			
<u>F</u>	Produc Remark	e <u>t:</u> ks	:	Slightly irritating Based on availa	to skin. ble data, the classification criteria are not met.
<u>c</u>	Compo	onents:			
E S N F	Ethane Species Method Remark	idiol: S KS	:	Rabbit Acceptable non- Slightly irritating Insufficient to cl	-standard method. to skin. assify.
E	Ethano	l:		5.1.1.	
N F	Species Method Remark	S (S		Rabbit Test(s) equivale Based on data f Based on availa	ent or similar to OECD Test Guideline 404 rom similar materials ble data, the classification criteria are not met.
5	Seriou	s eye damage/eye iı	ritati	on	
<u>F</u>	Produc Remarl	:t: ‹s	:	Slightly irritating Based on availa	to the eye. ble data, the classification criteria are not met.
<u>(</u>	Compo	onents:			
E	E thane Species	diol: S	:	Rabbit	

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	Method Remarks		:	Acceptable non-standard method.Slightly irritating to the eye. Insufficient to classify.						
	Ethanol: Species : Method : Result : Remarks :			Rabbit Test(s) equivalent Irritating to eyes. Based on data fro	t or similar to OECD Test Guideline 405 m similar materials					
	Respir	atory or skin sensitis	atic	on						
	<u>Produc</u> Remar	et: ks	:	For respiratory an Not a sensitiser. Based on availab	d skin sensitisation: le data, the classification criteria are not met.					
	Compo	onents:								
	Ethane	ediol:								
	Specie Methoo Remar	s I ks	:	Guinea pig Literature data Based on availab	e data, the classification criteria are not met.					
	Ethand	bl:								
	Specie Methoo Remar	s I ks	: :	Mouse Test(s) equivalent Based on data fro Based on availab	t or similar to OECD Test Guideline 406 m similar materials le data, the classification criteria are not met.					
	Germ o	cell mutagenicity								
	Produc	<u>ot:</u>								
	Genoto	oxicity in vivo	:	Remarks: Non mu Based on availab	utagenic le data, the classification criteria are not met.					
	Germ o sessme	cell mutagenicity- As- ent	:	This product does categories 1A/1B.	not meet the criteria for classification in					
	Compo	onents:								
	Ethane	ediol:								
	Genoto	oxicity in vitro	:	Method: OECD To Remarks: Based	est Guideline 471 on data from similar materials					
				Method: Acceptat Remarks: Based	ble non-standard method. on data from similar materials					
				Method: Literature	e data					

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				Remarks: Base	d on data from similar materials
	Geno	toxicity in vivo	:	Species: Rat Method: Literatu Remarks: Base are not met.	ure data d on available data, the classification criteria
	Germ sessn	cell mutagenicity- As- nent	:	This product do categories 1A/1	es not meet the criteria for classification in B.
	Ethar	nol:			
	Geno	toxicity in vivo	:	Species: Mouse Method: OECD Remarks: Base Based on availa	e Test Guideline 478 d on data from similar materials able data, the classification criteria are not met.
	Germ sessn	cell mutagenicity- As- nent	:	This product do categories 1A/1	es not meet the criteria for classification in B.
	Carci	nogenicity			
	<u>Produ</u>	<u>uct:</u>			
	Rema	ırks	:	Not a carcinoge Based on availa	n. ble data, the classification criteria are not met.
	Carcii ment	nogenicity - Assess-	:	This product do categories 1A/1	es not meet the criteria for classification in B.
	<u>Com</u>	oonents:			
	Ethar	nediol:			
	Speci Applic Metho Rema	es cation Route od ırks	:	Mouse, male ar Oral Literature data Based on availa	nd female hble data, the classification criteria are not met.
	Carcii ment	nogenicity - Assess-	:	This product do categories 1A/1	es not meet the criteria for classification in B.
	Ethar	nol:			
	Speci Applic Metho Rema	es cation Route od ırks	:	Rat, male and fe Oral Test(s) equivale Based on availa	emale ent or similar to OECD Test Guideline 453 able data, the classification criteria are not met.
	Carcii ment	nogenicity - Assess-	:	This product do categories 1A/1	es not meet the criteria for classification in B.

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Mater	ial	G	HS/CLP Carcinc	genicity Classification
Ethan	ediol	N	o carcinogenicity	classification.
Ethan	Ethanol Material		o carcinogenicity	classification.
Mater			ther Carcinoger	icity Classification
Ethan	ol	IA	RC: Group 1: Ca	rcinogenic to humans
Repro	oductive toxicity			
<u>Produ</u>	<u>uct:</u>			
Effect	s on fertility	:	Remarks: Not a data, the classif fertility.	developmental toxicant., Based on available fication criteria are not met., Does not impair
Repro sessn	oductive toxicity - As- nent	:	This product do categories 1A/1	es not meet the criteria for classification in B.
Comp	oonents:			
Ethar	nediol:			
Effect	s on fertility	:	Species: Rat Sex: male and t Application Rou	female ite: Oral
			Method: Literate Remarks: Base are not met.	ure data d on available data, the classification criteria
Repro sessn	oductive toxicity - As- nent	:	This product do categories 1A/1	es not meet the criteria for classification in B.
Ethar	nol:			
Effect	s on fertility	:	Species: Mouse Sex: male and t Application Rou	e female ite: Oral
			Method: Equiva Remarks: Base are not met.	lent or similar to OECD Test Guideline 416 d on available data, the classification criteria
Repro sessn	oductive toxicity - As- nent	:	This product do categories 1A/1	es not meet the criteria for classification in B.
STOT	- single exposure			
<u>Prod</u> u	<u>uct:</u>			

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	Remarks		:	Based on availab	le data, the classification criteria are not met.
	Comp	onents:			
	Ethane	ediol:			
	Remar	ks	:	Inhalation of vapo piratory system. Based on availab Ingestion may cau	ours or mists may cause irritation to the res- le data, the classification criteria are not met. use drowsiness and dizziness.
	Ethand	ol:			
	Remar	ks	:	Based on availab	le data, the classification criteria are not met.
	STOT	- repeated exposure			
	Produ	<u>ct:</u>			
	Remar	ks	:	Kidney: can cause	e kidney damage.
	Comp	onents:			
	Ethane	ediol:			
	Exposi Target Remar	ure routes Organs ks	:	Oral Kidney May cause damae longed or repeate	ge to organs or organ systems through pro- d exposure.
	Ethano	ol:			
	Remar	ks	:	Based on availab	le data, the classification criteria are not met.
	Repea	ted dose toxicity			
	Comp	onents:			
	Ethane	ediol:			
	Specie Applica Methoo Target	s ation Route d Organs	:	Rat, male Oral Test(s) equivalent Kidney	t or similar to OECD Test Guideline 408
	Ethand	ol:			
	Specie Methoo Remar	s d ks	:	Rat, male and fen OECD Test Guide No significant adv	nale eline 408 verse effects were reported

Aspiration toxicity

Product:

Not an aspiration hazard., Based on available data, the classification criteria are not met.

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Components:

Ethanediol:

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting proper	Endocrine disrupting properties				
Product:					
Assessment	:	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.			
Further information					
Product:					
Remarks	:	Slightly irritating to respiratory system.			
Remarks	:	Classifications by other authorities under varying regulatory frameworks may exist.			
Remarks	:	Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).			
Components:					
Ethanediol:					
Remarks	:	Classifications by other authorities under varying regulatory frameworks may exist.			

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: LC/EC/IC50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: LC/EC/IC50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to algae/aquatic plants	:	Remarks: LC/EC/IC50 > 100 mg/l

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		-	Practically non toxi Based on available	c: data, the classification criteria are not met.
T ic	oxicity to fish (Chronic tox- city)	:	Remarks: Data not	available
T a io	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	Remarks: Data not	available
Т	oxicity to microorganisms	:	Remarks: Data not	available
<u>c</u>	Components:			
E	thanediol:			
Т	oxicity to fish	:	LC50 (Pimephale Exposure time: 96 Method: Other gu Remarks: Practical LC/EC/IC50 > 100	s promelas (fathead minnow)): 72.860 mg/l 6 h ideline method. y non toxic: mg/l
T a	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 44 Method: OECD T Remarks: Practical LC/EC/IC50 > 100	agna (Water flea)): > 100 mg/l 3 h est Guideline 202 y non toxic: mg/l
Т	oxicity to algae/aquatic plants	:	EC50 (Pseudokin 13.000 mg/l Exposure time: 96 Method: Other gu Remarks: Practical LC/EC/IC50 > 100	chneriella subcapitata (algae)): 6.500 - 6 h ideline method. y non toxic: mg/l
Т	oxicity to microorganisms	:	EC20 (Activated s Exposure time: 0, Method: Other gu Remarks: Practical LC/EC/IC50 > 100	sludge, domestic waste): > 1.995 mg/l 5 h ideline method. y non toxic: mg/l
T id	oxicity to fish (Chronic tox- city)	:	NOEC: 15.380 m Exposure time: 7 Species: Pimepha Method: Other gu Remarks: NOEC/	g/l d ales promelas (fathead minnow) ideline method. NOEL > 100 mg/l
T a id	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	NOEC: 8.590 mg. Exposure time: 7 Species: Chirono Method: Other gu Remarks: NOEC/N	′l d mus sp. (midge) ideline method. OEL > 100 mg/l

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	Ethanc Toxicity	bl: / to fish	:	LC50 (Pimephale: Exposure time: 96 Method: Test(s) e Remarks: Based on met.	s promelas (fathead minnow)): 14.200 mg/l 5 h quivalent or similar to OECD Guideline 203 available data, the classification criteria are not
	Toxicity aquatic	/ to daphnia and other invertebrates	:	LC50 (Ceriodaphr Exposure time: 48 Method: Test(s) e Remarks: Based on met.	nia dubia (water flea)): 5.012 mg/l 3 h quivalent or similar to OECD Guideline 202 available data, the classification criteria are not
	Toxicity	y to algae/aquatic plants	:	EC50 (Chlorella v Exposure time: 72 Method: Test(s) e 201 Remarks: Based on met.	ulgaris (Fresh water algae)): 675 mg/l 2 h quivalent or similar to OECD Test Guideline available data, the classification criteria are not
	Toxicity	to microorganisms	:	Toxic threshold (F Exposure time: 16	Pseudomonas putida): 6.500 mg/l S h
	Toxicity icity)	/ to fish (Chronic tox-	:	NOEC: 245 mg/l Exposure time: 30 Method: Based or (QSAR) modelling Remarks: NOEC/) d n quantitative structure-activity relationship) NOEL > 100 mg/l
	Toxicity aquatic ic toxic	/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 2 mg/l Exposure time: 10 Species: Ceriodar Method: Test(s) e Remarks: NOEC/N) d ohnia dubia (Water flea) quivalent or similar to OECD Guideline 211 OEL > 1.0 - <=10 mg/l (based on test data)
12.2	Persis	tence and degradabil	ity		
	<u>Produc</u> Biodeg	et: radability	:	Remarks: Readily b	biodegradable.
	Compo	onents:			
	Ethane Biodeg	ediol: radability	:	Biodegradation: 9 Exposure time: 10 Method: OECD Te Remarks: Readily b	90 - 100 %) d est Guideline 301A piodegradable.
	Ethanc	bl:			

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	Biodegradability		:	Biodegradation: 8 Exposure time: 20 Method: Test(s) et B Remarks: Readily b Oxidises rapidly by	4 % d quivalent or similar to OECD Guideline 301 iodegradable. photo-chemical reactions in air.
12.3	Bioaccumulativ	e potential			
	Product:				
	Bioaccumulation		:	Remarks: Does not	bioaccumulate significantly.
	Components:				
	Ethanediol:				
	Bioaccumulation		:	Remarks: Does not ly.	have the potential to bioaccumulate significant-
	Ethanol:				
	Bioaccumulation		:	Remarks: Does not	bioaccumulate significantly.
	Partition coefficie octanol/water	ent: n-	:	log Pow: < 1	
12.4	Mobility in soil				
	Product:				
	Mobility		:	Remarks: Liquid u product enters soi nate groundwater.	nder most environmental conditions., If l, it will be highly mobile and may contami- , Dissolves in water.
	Components:				
	Ethanediol:				
	Mobility		:	Remarks: Dispers more constituents groundwater.	es in water., If product enters soil, one or will be highly mobile and may contaminate
	Ethanol:				
	Mobility		:	Remarks: Dissolve highly mobile and	es in water., If product enters soil, it will be may contaminate groundwater.
12.5	Results of PBT	and vPvB ass	ses	sment	
	Product:				

Assessment	:	This mixture does not contain any REACH registered sub-
		stances that are assessed to be a PBT or a vPvB

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	Compo	onents:				
	Ethane	diol:				
Assessment : The substance tence, bioacce ered to be PB		The substance do tence, bioaccumu ered to be PBT or	es not fulfill all screening criteria for persis- lation and toxicity and hence is not consid- vPvB			
	Ethano	<u>)</u> -				
	Assess	ment	: The substance does not fulfill all screening criteria for tence, bioaccumulation and toxicity and hence is not ered to be PBT or vPvB			
12.6 Endocrine disrupting properties						
Product:						
	Assess	ment	:	The substance/mixt have endocrine disr 57(f) or Commissio Commission Regula	ure does not contain components considered to upting properties according to REACH Article n Delegated regulation (EU) 2017/2100 or ation (EU) 2018/605 at levels of 0.1% or higher.	
12.7 Other adverse effects						
	Produc	st:				
	Addition mation	nal ecological infor-	:	Does not have ozon tion potential or glo	e depletion potential, photochemical ozone crea- bal warming potential.	
				Unless indicated oth the product as a who	nerwise, the data presented is representative of ole, rather than for individual component(s).	
	Compo	onents:				
	Ethane	ediol:				
	Addition mation	nal ecological infor-	:	Does not have ozon	e depletion potential.	
SECTION 13: Disposal considerations						
12 4	Maata	traatmant mathada				
13.1	Produc	treatment methods		Recover or recycl	e if nossible	
Product		•	It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to			

toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.

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				Waste, spills or u Waste arising fro posed of in account to a recognised of collector or contr Do not dispose of drain into the gro contamination.	ased product is dangerous waste. m a spillage or tank cleaning should be dis- dance with prevailing regulations, preferably collector or contractor. The competence of the actor should be established beforehand. f tank water bottoms by allowing them to und. This will result in soil and groundwater
				MARPOL - see In Pollution from Sh nical aspects at c	nternational Convention for the Prevention of hips (MARPOL 73/78) which provides tech- controlling pollutions from ships.
	Contar	ninated packaging	:	Drain container the After draining, very Do not puncture, Dispose in accorr to a recognized of the collector or content of the collector or co	horoughly. Int in a safe place away from sparks and fire. cut, or weld uncleaned drums. dance with prevailing regulations, preferably collector or contractor. The competence of contractor should be established beforehand.
	Local le	gislation			
,	Waste	catalogue	:		
				EU Waste Dispo	sal Code (EWC):
,	Waste	Code	:		
				16 01 14*	
	Remarl	<s< td=""><td>:</td><td>Disposal should national, and loca</td><td>be in accordance with applicable regional, al laws and regulations.</td></s<>	:	Disposal should national, and loca	be in accordance with applicable regional, al laws and regulations.
				Classification of user.	waste is always the responsibility of the end
				For the disposal empty containers 152/06 and subs	of waste arising from the product, including not cleared, follow the Legislative Decree equent amendments.

SECTION 14: Transport information

14.1 UN r	number or ID number			
ADN	l	:	1170	

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	ADR RID IMDG IATA		: 1170 : 1170 : 1170 : 1170 : 1170				
14.2 UN proper shipping name ADN ADR RID		: ETHAN : ETHAN : ETHAN	ETHANOL SOLUTION ETHANOL SOLUTION ETHANOL SOLUTION				
14.3	IMDG IATA Transr	oort hazard class(es)	: ETHAN : ETHAN	ol solu [.] Ol solu [.]	TION		
	ADN ADR RID IMDG		: 3 : 3 : 3 : 3				
IATA 14.4 Packing group ADN Decking group		: 3					
	Classifi Labels	ication Code	: F1 : 3				
	Packin Classif Hazard Labels	g group ication Code I Identification Number	: III : F1 : 30 : 3				
	RID Packing Classifi Hazard Labels	g group ication Code I Identification Number	: III : F1 : 30 : 3				
	IMDG Packing Labels IATA	g group	: III : 3				
14.5	Packin Labels Enviro	g group nmental hazards	: III : 3				
ADN Environmentally hazardous		: no					

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	Environmentally hazardous	:	no					
	RID Environmentally hazardous	:	no					
	I MDG Marine pollutant		no					
14.6	Special precautions for use	•						
14.0	Remarks	: Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.						
14.7	14.7 Maritime transport in bulk according to IMO instruments MARPOL Annex 1 rules apply for bulk shipments by sea.							
1	Additional Information : MARPOL Annex 1 rules apply for bulk shipments by sea.							
SECTION 15: Regulatory information								
15.1 ture	Safety, health and environm	ent	al regulations/leg	islation	specific for the substance or mix-			
1	REACH - Restrictions on the manufacture, placing on : Not applicable the market and use of certain dangerous substances, mixtures and articles (Annex XVII)							
	REACH - List of substances si (Annex XIV)	ubje	ect to authorisation	:	Product is not subject to Authorisa- tion under REACH.			
:	Seveso III: Directive 2012/18/EU of the Euro- P5c FLAMMABLE LIQUIDS pean Parliament and of the Council on the control of major-accident hazards involving							

Volatile organic compounds : Volatile organic compounds (VOC) content: 90 %

Other regulations:

dangerous substances.

Safeguard of health and safety in the workplaces refer to D.Lgs.81/2008 and subsequent amendments.

For waste disposal refer to D.Lgs.152/2006 and subsequent amendments.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XVII.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work and its amendments.

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Directive 1994/33/EC on the protection of young people at work and its amendments. Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding and its amendments.

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Product is subject to Decree-Law N. 105 of 26 June 2015 on the control of the danger of major accidents involving certain dangerous substances, based on Seveso III directive (2012/18/EU).

The components of this product are reported in the following inventories:

REACH	:	All components listed or polymer exempt.
TSCA	:	All components listed.

15.2 Chemical safety assessment

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

SECTION 16: Other information

H302:Harmful if swallowed.H319:Causes serious eye irritation.H373:May cause damage to organs through prolonged or increased and the series of the se	
H319: Causes serious eye irritation.H373: May cause damage to organs through prolonged or	
H373 : May cause damage to organs through prolonged or	
exposure.	or repeated

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
STOT RE	:	Specific target organ toxicity - repeated exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
IT OEL	:	Italy. List of indicative limit values for professional exposure to chemical agents.
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
IT OEL / TWA	:	8 hour exposure limit
IT OEL / STEL	:	Short term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration

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associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information	: A vertical bar from the prev	() in the left margin indicates an amendment ious version.
Classification of the m	nixture:	Classification procedure:
Flam. Liq. 3	H226	Expert judgement and weight of evi- dence determination.
Acute Tox. 4	H302	Expert judgement and weight of evi- dence determination.
STOT RE 2	H373	Expert judgement and weight of evi- dence determination.
Identified Uses accord Uses - Worker Title	ding to the Use Descrip : Use in de-icing - Professional	otor System g and anti-icing fluids
Uses - Worker Title	: Use in function - Professional	nal fluids
Identified Uses accord Uses - Consumer	ding to the Use Descrip	otor System
Title	: Use in de-icing	g and anti-icing fluids

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		- Consumer	
Uses - Title	Consumer	: Use in functional flu - Consumer	uids

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Exposure Scenario - Worker 30000000696

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in de-icing and anti-icing fluids- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC8a, PROC8b, PROC11 Environmental Release Categories: ERC8d
Scope of process	Ice prevention and de-icing of vehicles, aircraft and other equipment by spraying.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for the environment.
Section 2.1	Control of Worker Exposure
Product Characteristics	· · ·
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP
Concentration of the Sub- stance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of	Use
Covers daily exposures up to	8 hours (unless stated differently).
Other Operational Conditio	ns affecting Exposure
Assumes a good basic stand	ard of occupational hygiene is implemented.
Assumes use at not more that	an 20°C above ambient temperature (unless stated differently).
Contributing Scenarios	Risk Management Measures
Bulk open unloading.	Use dedicated equipment. , or: Ensure material transfers are under containment or extract ventilation.
Filling/ preparation of equipment from drums or containers.	Use drum pumps or carefully pour from container. Wear chemically resistant gloves (tested to EN374) in combi- nation with 'basic' employee training.
General exposures.(closed systems)	No specific measures identified.
Material transferselevated temperature	Use dedicated equipment. , or: Ensure material transfers are under containment or extract ventilation.
Spraying/ fogging by ma- chine applicationelevated temperature	Apply within a vented cab supplied with filtered air under posi- tive pressure and with a protection factor of >20.

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Spr ual	aying/ fogging by man- application	Wear chemically re nation with 'basic' Wear suitable cove Carry out in a vent	esistant gloves (tested to EN374) in combi- employee training. eralls to prevent exposure to the skin. red booth or extracted enclosure.

Wear a respirator conforming to EN140 with Type A/P2 filter or better.

Section 2.2	Control of Environmental Exposure
Storage.	Store substance within a closed system.
Storogo	Store substance within a closed system
	Wear suitable gloves tested to EN374.
	nance.
Equipment maintenance	Drain down system prior to equipment opening or mainte-

No exposure assessment presented for the environment.

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has b indicated.	een used to estimate workplace exposures unless otherwise
For some of the Contributing	Scenarios workplace exposures have been estimated from

Section 3.2 - Environment

measured data.

No exposure assessment presented for the environment.

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE
	EXPOSURE SCENARIO

Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users

should ensure that risks are managed to at least equivalent levels.

Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure Scenario - Worker 30000000695

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in functional fluids- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20 Environmental Release Categories: ERC9a, ERC9b
Scope of process	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional Information	No exposure assessment presented for the environment.	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure < 0.5 kPa at STP	
Concentration of the Sub- stance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,	
Frequency and Duration of	Use	
Covers daily exposures up to	8 hours (unless stated differently).	
Other Operational Conditio	ns affecting Exposure	
Assumes a good basic stand	ard of occupational hygiene is implemented.	
Assumes use at not more that	in 20°C above ambient temperature (unless stated differently).	
Contributing Scenarios	Risk Management Measures	
Drum/batch transfers	Use drum pumps or carefully pour from container. Wear chemically resistant gloves (tested to EN374) in combi- nation with 'basic' employee training.	
Transfer from/pouring from containers	Use drum pumps or carefully pour from container. Wear chemically resistant gloves (tested to EN374) in combi- nation with 'basic' employee training.	
Filling/ preparation of equipment from drums or containers.	Use drum pumps or carefully pour from container. Wear chemically resistant gloves (tested to EN374) in combi- nation with 'basic' employee training.	
General exposures.(closed systems)	No specific measures identified.	
Remanufacture of reject articles	Drain down system prior to equipment opening or mainte- nance. Wear suitable gloves tested to EN374.	

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Equipment maintenance	Drain down system prior to equipment opening or mainte- nance. Wear suitable gloves tested to EN374.	
Storage.	Store substance within a closed system.	
Section 2.2	Control of Environmental Exposure	
No exposure assessment pr	esented for the environment.	

SECTION 3	EXPOSURE ESTIMATION	
Section 3.1 - Health		
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.		

Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure Scenario - Consumer 300000001096

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in de-icing and anti-icing fluids - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC4 Environmental Release Categories: ERC8d
Scope of process	De-icing of vehicles and similar equipment by spraying.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES		
Additional Information	No exposure assessment presented for the environment.		
Section 2.1	Control of Consumer Exposure		
Product Characteristics			
Physical form of product	Liquid, vapour pressure > 10 Pa at STP		
Concentration of the Sub- stance in Mixture/Article	Covers concentration up to (%): 100 %		
Amounts Used			
for each use event covers ar	mount up to (a).	5 000	
Frequency and Duration of	Use	0.000	
Covers use up to (days/year)		365	
Covers exposure up to (hours	s/event):	4	
Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES		
Anti-Freeze and de-icing products Washing car win- dow.	Covers concentrations up to 100 %		
	For each use event, covers amount up to 33 g		
	covers use up to 365 day/year		
	Covers use up to 1 times/day of use		
	Covers exposure up to 4 hours/event		
	covers skin contact area up to (cm2): 215 cm2		
	Covers use in room size of 58 m3		
	Covers use under typical household ventilation.		
	Covers use at ambient temperatures.		
Anti-Freeze and de-icing	Covers concentrations up to 30 %		
products Pouring into radia-	ucts Pouring into radia-		
tor.			
	For each use event, covers amount up to 5.000 g		
	covers use up to 1 day/year		
	Covers use up to 1 times/day of use		
	Covers exposure up to 0,25 hours/event		
	Covers skin contact area up to (cm2): 960 cm2		
	Covers use in a one car garage (34 m3) under typical ventila-		

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tion.
Covers use at ambient temperatures.

Section 2.2	Control of Environmental Exposure	
No exposure assessment pre	sented for the environment.	

SECTION 3	EXPOSURE ESTIMATION	
Section 3.1 - Health		
The Consexpo model has been used to estimate consumer exposures unless otherwise indicated.		

Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO	
Section 4.1 - Health		
Predicted exposures are not of Measures/Operational Condit Where other Risk Manageme should ensure that risks are n	expected to exceed the DN(M)EL when the Risk Management ions outlined in Section 2 are implemented. Int Measures/Operational Conditions are adopted, then users nanaged to at least equivalent levels.	

Section 4.2 - Environment

No exposure assessment presented for the environment.

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Exposure Scenario - Consumer 300000010840

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in functional fluids - Consumer
Use Descriptor	Sector of Use: SU21
	Product Categories: PC16
	Environmental Release Categories: ERC9a, ERC9b
Scope of process	Use of sealed items containing functional fluids e.g. transfer
• •	oils, hydraulic fluids, refrigerants.
SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT
	MEASURES
Additional Information	No exposure assessment presented for the environment.
Section 2.1	Control of Consumer Exposure
Product Characteristics	
Physical form of product	Liquid, vapour pressure > 10 Pa at STP
Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Heat transfer fluids	Covers concentrations up to 30 %
	For each use event, covers amount up to 1.000 g
	covers use up to 200 day/year
	Covers use up to 1 times/day of use
	Covers exposure up to 0,25 hours/event
	covers skin contact area up to (cm2): 960 cm2
	Covers use in a one car garage (34 m3) under typical ventila- tion.
	Covers use at ambient temperatures.

Section 2.2Control of Environmental ExposureNo exposure assessment presented for the environment.

SECTION 3 EXPOSURE ESTIMATION Section 3.1 - Health The Consexpo model has been used to estimate consumer exposures unless otherwise indicated.

Section 3.2 - Environment

No exposure assessment presented for the environment.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Section 4.2 - Environment

No exposure assessment presented for the environment.