

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier:

Product name: BLUESIL PRIM 131
UFI: V530-D0MP-G00V-N4E5

Product No.: PRCO90006548

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

Identified uses: Adhesion promoter for silicone elastomers.

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:

Elkem Silicones Germany GmbH
Hans-Sachs-Strasse 4a
D-23566 Lübeck
GERMANY

Telephone: +49 (0) 451 6 09 81-27

Fax: +49 (0) 451 6 09 81-11

E-mail: fds.sil@elkem.com

Supplier:

Elkem Silicones (UK) Ltd
Wolfe Mead, Farnham Road
UK-GU35 0NH Bordon

Telephone: +44 (0) 1420 477000

1.4 Emergency telephone number: CHEMTREC Ireland (24h) : +(353)-19014670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

The product has been classified according to the legislation in force.

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

Physical Hazards:

Flammable liquids	Category 2	H225: Highly flammable liquid and vapor.
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Health Hazards:

Serious eye irritation	Category 2	H319: Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure	Category 3	H336: May cause drowsiness or dizziness.

2.2 Label Elements:

Contains: propan-2-ol
Titanium tetraisopropanolate

Hazard pictograms:



Signal Word: Danger

Hazard statements: H225: Highly flammable liquid and vapor.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Precautionary Statements:

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

UFI: V530-D0MP-G00V-N4E5

2.3 Other hazards:

Physical Hazards: Highly flammable liquid and vapor.

Health Hazards:

Inhalation: Vapors may cause drowsiness and dizziness.

Eye contact: Causes serious eye irritation.

Skin contact: No specific symptoms noted.

Ingestion: No specific symptoms noted.

Other Health Effects: No other information noted.

Environmental Hazards: Not regarded as dangerous for the environment.

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

Endocrine Disruption - Health: 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.

Endocrine Disruption - Environment: 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.

Other hazards: No other information noted.

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

General information:

Mixture of additives.

Hazardous Component(s):

Chemical name	Concentration*	Type	CAS-No.	EC No.	REACH Registration No.	Notes
propan-2-ol	>90%	Component	67-63-0	200-661-7	01-2119457558-25-XXXX	#
Titanium tetraisopropanolate	<10%	Component	546-68-9	208-909-6	01-2119967389-17-XXXX	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

ED: Endocrine Disruptor

Classification:

Chemical name	Classification	Specific concentration limits / ATE / M-Factor:	Notes
propan-2-ol	Flam. Liq. 2 H225; Eye Irrit. 2 H319; STOT SE 3 H336;		
Titanium tetraisopropanolate	Flam. Liq. 3 H226; Eye Irrit. 2 H319; STOT SE 3 H336;		

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information:

Move into fresh air and keep at rest. Take off contaminated clothing and wash it before reuse. Get medical attention immediately.

4.1 Description of first aid measures:

Inhalation:

In case of inhalation: Move person into fresh air and keep at rest. Get medical attention immediately. If breathing is difficult, trained personnel should give oxygen. If breathing stops, provide artificial respiration.

Skin contact:

Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

Eye contact:

In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention if symptoms occur.

Ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

Personal Protection for First-aid Responders:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). Refer to sections 5 and 8 for information on emergency procedures and protective equipment.

4.2 Most important symptoms and effects, both acute and delayed:

Any important symptoms and effects are described in Section 11 (Toxicological information) of this SDS.

4.3 Indication of any immediate medical attention and special treatment needed:

Notes to the physician:

No specific recommendations. Show this Safety Data Sheet to the attending physician.

SECTION 5: Firefighting measures

General Fire Hazards:

Material whose physical characteristics induce a risk of fire in contact with a source of ignition. Vapors may travel considerable distance to a source of ignition and flash back. Containers may explode (due to the build-up of pressure) when exposed to extreme heat.

5.1 Extinguishing media:

Suitable extinguishing media:

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media:

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

5.3 Advice for firefighters:

Special fire fighting procedures:

Use standard firefighting procedures and consider the hazards of other involved materials. Remove undamaged containers from fire area if it is safe to do so. Evacuate to a safe location and contact the emergency services. Water spray should be used to cool containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not breathe vapor. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental Precautions:

Collect spillage. Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up:

Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Use explosion-proof electrical equipment. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent (see § 9). Flush area with plenty of water. Incinerate in suitable combustion chamber.

6.4 Reference to other sections:

Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Precautions:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. In partly emptied containers formation of explosive mixture is possible. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Use spark-proof tools and/or explosion-proof equipment. Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. If ventilation is insufficient, suitable respiratory protection must be provided. See Section 8 of the SDS for Personal Protective Equipment. Provide eyewash station and safety shower and ensure that their location are labelled conspicuously. Limit the quantities of product in the work area to those which are necessary for the work in hand. Handle in accordance with good industrial hygiene and safety practices. Handle and open container with care. Keep container tightly closed. Protect from contamination. Do not mix with incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Take care to prevent spills, waste and minimize release to the environment. In case of spills, beware of slippery floors and surfaces.

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local/regional/national regulations. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. For further information, refer to section 10: "Stability and Reactivity". Store in original tightly closed container. Keep in properly labelled containers. Nitrogen blanketing of containers is recommended. Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Take action to prevent static discharges. Keep above the chemical's freezing point. Protect against physical damage and/or friction. Avoid discharge into drains, water courses or onto the ground. Provide a retention tank. Provide impermeable soil.

Packaging frequently used at our sites:

Steel drums coated with epoxy-resin.

7.3 Specific end use(s):

No specific recommendations. See the technical data sheet on this product for further information.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters:

Occupational Exposure Limits:

propan-2-ol

Type	Exposure Limit Values	Source	Date	Remarks
TWA	200 ppm -	ELV (IE)	2007	
SKIN DES	- -	ELV (IE)	2007	Can be absorbed through the skin.
STEL	400 ppm -	ELV (IE)	2018	

Monitoring methods:

Ensure workers' exposure monitoring in accordance with national and European regulations in force, in particular Directives 98/24/EC and 2004/37/EC.

8.2 Exposure controls:

Appropriate Engineering Controls:

Use engineering controls to reduce air contamination to permissible exposure level. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Engineering controls are always preferable to personal protective equipment. Control measures to consider: Provide adequate ventilation. In case of inadequate ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower. Use explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment:

Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. Personal protective equipment should be chosen according to applicable standards, adapted to the conditions of use of the product and in discussion with the supplier of the personal protective equipment.

Eyeface protection:

Safety goggles.
Use face shield in case of splash risk.

Hand Protection:

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes. In case this product will be mixed with other substances, you need to contact a supplier of CE approved protective gloves in order to determine the appropriate gloves.

Prolonged or repeated contact:

Material: Nitrile.

Glove thickness: 1,25 mm

Guideline: EN374-3

Additional Information: Gloves commonly used in Elkem's facilities.

Short contact:

Material: Nitrile / Neoprene

Glove thickness: 0,198 mm

Guideline: EN374-3

Additional Information: Gloves commonly used in Elkem's labs.

Skin and Body Protection:

Wear appropriate clothing to prevent any possibility of skin contact. Isolate contaminated clothing and wash before reuse. In case of splashes: Wear apron or special protective clothing.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use the following CE approved air-purifying respirator: Breathing apparatus with combined filter type ABEK. Wear respiratory protection with combination filter (dust and gas filter) during operations leading to the formation of dust/aerosols.

Environmental Controls:

See sections 7 and 13 of the Safety Data Sheet.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties:****Appearance:**

Physical state:	Liquid
Form:	Mobile
Color:	Colorless
Odor:	Characteristic
pH:	No data available.
Melting point/freezing point:	No data available.
Boiling Point:	82 °C
Flash Point:	12 °C / 54 °F (Closed cup according to method Afnor T 60103.)
Flammability:	No data available.
Flammability Limit - Upper (%):	11,8 %(V) 2-Propanol
Flammability Limit - Lower (%):	2 %(V) 2-Propanol
Vapor pressure:	Approximate 48 hPa (20 °C)
Relative vapor density:	No data available.
Evaporation Rate:	No data available.
Density:	0,79 kg/dm ³ (20 °C)
Solubility(ies):	
Solubility in Water:	Very Soluble
Solubility (other):	Common organic solvents.: Miscible (in all proportions).
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	Approximate 3 mm ² /s (25 °C)
Particle characteristics:	Not applicable.

9.2 Other information:

Oxidizing properties:	According to the data on the components, Not considered as oxidizing. (evaluation by structure-activity relationship)
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SECTION 10: Stability and reactivity

10.1 Reactivity:

No other information noted.

10.2 Chemical Stability:

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions:

Will not occur.

10.4 Conditions to avoid:

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible Materials:

Strong oxidizing agents.

10.6 Hazardous Decomposition Products:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: No data available.

Ingestion: No data available.

Skin contact: No data available.

Eye contact: No data available.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

Oral:

Not classified for acute toxicity based on available data.

Dermal:

Not classified for acute toxicity based on available data.

Inhalation:

Not classified for acute toxicity based on available data.

Repeated dose toxicity:

Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

NOAEL: 12,5 mg/l ; (Rat ; Female, Male ; Inhalation - vapour) ; Method: OECD 451 ; No adverse effect observed. Chronic exposure.

TITANIUM TETRAISOPROPANOLATE (546-68-9):

NOAEL: 12,3 mg/l ; (Rat ; Female, Male ; Inhalation - vapour) ; Method: OECD 413 ; Results obtained on a similar product. Subchronic exposure.

Skin Corrosion/Irritation:

Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Not irritating (Rabbit ; 4 h) ; Method: According to a standardised method.

TITANIUM TETRAISOPROPANOLATE (546-68-9):

Not irritating (Rabbit) ; Method: OECD 404

Serious Eye Damage/Eye Irritation:

Based on our knowledge of the composition information: Causes serious eye irritation.

PROPAN-2-OL (67-63-0):

Causes serious eye irritation. (Rabbit) ; Method: OECD 405 ; Expert judgement

TITANIUM TETRAISOPROPANOLATE (546-68-9):

Causes serious eye irritation. (Rabbit) ; Method: OECD 405

Respiratory or Skin Sensitization:

Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406

TITANIUM TETRAISOPROPANOLATE (546-68-9):

Skin sensitization: Not a skin sensitizer. (Mouse) ; Method: According to a standardised method.

Germ Cell Mutagenicity:

In vitro: Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Bacteria: No mutagenic effect. (Salmonella typhimurium ; with and without metabolic activation) ; Method: OECD 471

In vitro gene mutations test on mammalian cells: No mutagenic effect. (Chinese hamster ovary cells ; with and without metabolic activation) ; Method: OECD 476

TITANIUM TETRAISOPROPANOLATE (546-68-9):

Bacteria: No mutagenic effect. (Salmonella typhimurium ; with and without metabolic activation) ; Method: OECD 471

In vivo: Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Mammalian erythrocyte micronucleus test: No mutagenic effect. (Mouse ; Female, Male ; Intraperitoneal) ; Method: OECD 474

TITANIUM TETRAISOPROPANOLATE (546-68-9):

Mammalian erythrocyte micronucleus test: No mutagenic effect. (Mouse ; Female, Male ; Intraperitoneal) ; Method: According to a standardised method. ; Results obtained on a similar product.

Carcinogenicity:

Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Not classified

NOAEC: 5 000 ppm (Rat ; Female, Male ; Inhalation - vapor) ; Method: OECD 451 ; No effect observed up to the highest dose tested. Chronic exposure.

TITANIUM TETRAISOPROPANOLATE (546-68-9):

Not classified

NOEL: 5 000 ppm (Rat ; Female, Male ; Inhalation - vapor) ; Method: Similar to OECD 451 ; Results obtained on a similar product.

NOEL: 500 ppm (Rat ; Female, Male ; Inhalation - vapor) ; Method: Similar to OECD 451 ; Systemic toxicity Results obtained on a similar product.

Reproductive toxicity:

Fertility: Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Not classified

Fertility study 2 generations: NOAEL (parent): 1 000 mg/kg ; NOAEL (F1): 1 000 mg/kg ; NOAEL (F2):

None. (Rat ; Female, Male ; Gavage (Oral)) ; Method: OECD 416 ; The product is not considered to affect fertility.

Teratogenicity: Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Not classified

NOAEL (terato): 400 mg/kg ; NOAEL (mater): 400 mg/kg (Rat ; Gavage (Oral)) ; Method: OECD 414 ; The product is not considered to be toxic for development.

TITANIUM TETRAISOPROPANOLATE (546-68-9):

Not classified

NOAEL (terato): 400 mg/kg ; NOAEL (mater): 400 mg/kg (Rat ; Gavage (Oral)) ; Method: According to a standardised method. ; The product is not considered to be toxic for development. Results obtained on a similar product.

Specific Target Organ Toxicity - Single Exposure:

Based on our knowledge of the composition information: May cause drowsiness or dizziness.

PROPAN-2-OL (67-63-0):

May cause drowsiness or dizziness. Inhalation Oral: Target Organ(s): Central nervous system.

TITANIUM TETRAISOPROPANOLATE (546-68-9):

May cause drowsiness or dizziness. Oral Inhalation: Target Organ(s): Central nervous system.

Specific Target Organ Toxicity - Repeated Exposure:

Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

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

TITANIUM TETRAISOPROPANOLATE (546-68-9):

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

Aspiration Hazard:

Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

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

TITANIUM TETRAISOPROPANOLATE (546-68-9):

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

11.2 Information on other hazards:

Endocrine disrupting properties:

No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute toxicity:

Fish: Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

LC 50 (Fathead Minnow; 96 h ; Flow through) : 9 640 mg/l ; Method: OECD 203

TITANIUM TETRAISOPROPANOLATE (546-68-9):

LC 50 (Pimephales promelas; 96 h) : 9 640 mg/l ; Method: According to a standardised method. ; Results obtained on a similar product.

Aquatic Invertebrates: Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

EC 50 (Water flea (Daphnia magna); 24 h ; Static) : > 10 000 mg/l ; Method: OECD 202

TITANIUM TETRAISOPROPANOLATE (546-68-9):

EC 50 (Water flea (Daphnia magna); 48 h ; Static) : 700 mg/l ; Method: OECD 202

Aquatic plants: Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Toxicity Threshold Value (Green algae (Scenedesmus quadricauda); 7 d ; Static) : 1 800 mg/l

TITANIUM TETRAISOPROPANOLATE (546-68-9):

EC 50 (Green algae (Scenedesmus subspicatus); 72 h ; Static) : > 960 mg/l ; Method: OECD 201

NOEC (growth rate) (Green algae (Scenedesmus subspicatus); 72 h ; Static) : 237 mg/l ; Method: OECD 201

Toxicity to microorganisms: No data available.

Chronic Toxicity:

Fish: No data available.

Aquatic Invertebrates: No data available.

12.2 Persistence and Degradability:

Biodegradation: Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

53 % (sewage, domestic (adaptation not specified) ; 5 d ; Oxygen depletion) ; Method: According to a standardised method. ; Readily biodegradable.

TITANIUM TETRAISOPROPANOLATE (546-68-9):

80 % (sewage, domestic, non-adapted ; 15 d ; Oxygen depletion) ; Method: According to a standardised method. ; Readily biodegradable. Results obtained on a similar product.

BOD/COD Ratio: No data available.

12.3 Bioaccumulative potential:

Bioconcentration Factor (BCF): No data available.

Partition coefficient (n-octanol/water): Based on our knowledge of the composition information:

PROPAN-2-OL (67-63-0):

Log Kow: 0,05

Log Kow: 0,05

TITANIUM TETRAISOPROPANOLATE (546-68-9):

Log Kow: 0,05 ; Results obtained on a similar product.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

No data available.

12.6 Endocrine disrupting properties:

No data available.

12.7 Other adverse effects:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal methods:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate.

Contaminated Packaging:

Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

SECTION 14: Transport information**ADR**

14.1 UN number or ID number:	UN 1219
14.2 UN Proper Shipping Name:	ISOPROPANOL SOLUTION
14.3 Transport Hazard Class(es):	
Class:	3
Label(s):	3
Hazard No. (ADR):	33
Tunnel restriction code:	(D/E)
14.4 Packing Group:	II
14.5 Environmental hazards:	No
14.6 Special precautions for user:	None.

ADN

14.1 UN number or ID number:	
14.2 UN Proper Shipping Name:	SOLUTION
14.3 Transport Hazard Class(es):	
Class:	
Label(s):	
Hazard No. (ADR):	
14.4 Packing Group:	
14.6 Special precautions for user:	None.

RID

14.1 UN number or ID number:	UN 1219
14.2 UN Proper Shipping Name:	ISOPROPANOL SOLUTION
14.3 Transport Hazard Class(es):	
Class:	3
Label(s):	3
Hazard No. (ADR):	33
14.4 Packing Group:	II
14.5 Environmental hazards:	No
14.6 Special precautions for user:	None.

IMDG / IMO

14.1 UN number or ID number:	UN 1219
14.2 UN Proper Shipping Name:	ISOPROPANOL SOLUTION
14.3 Transport Hazard Class(es):	
Class:	3
Label(s):	3
EmS No.:	F-E , S-D
14.4 Packing Group:	II
14.5 Environmental hazards:	No
14.6 Special precautions for user:	None.
14.7 Maritime transport in bulk according to IMO instruments:	Not applicable.

IATA

14.1 UN number or ID number:	UN 1219
14.2 Proper Shipping Name:	Isopropanol Solution
14.3 Transport Hazard Class(es):	
Class:	3

Label(s):	3
14.4 Packing Group:	II
14.5 Environmental hazards:	No
14.6 Special precautions for user:	None.
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

SECTION 15: Regulatory information

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

EU Regulations:

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: None present or none present in regulated quantities.

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: None present or none present in regulated quantities.

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities.

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Entry No:	Concentration:
propan-2-ol	67-63-0	40	90 - 100%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
propan-2-ol	67-63-0	90 - 100%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier Requirements
P5c. Flammable liquids	5 000 t	50 000 t

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status:

Canada DSL Inventory List:	On or in compliance with the inventory.
EINECS, ELINCS or NLP:	On or in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory.
Australia Industrial Chem. Act (AIC):	On or in compliance with the inventory.

SECTION 16: Other information

Revision Information:

SECTION 15: Modification: Regulatory information

Abbreviations and acronyms:

CLP: Regulation No. 1272/2008.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
NOAEL - No Observable Adverse Effect Level
LOAEL - Lowest Observable Adverse Effect Level
ED: Endocrine Disruptor
SVHC: Listed on the Candidate List of substances of very high concern (SVHC)

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 as amended.	Classification procedure
Flammable liquids ; Category 2 ; H225	On basis of test data
Serious eye irritation ; Category 2 ; H319	Calculation method
Specific Target Organ Toxicity - Single Exposure ; Category 3 ; H336	Calculation method

Wording of the H-statements in section 2 and 3:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Issue Date: 18.01.2022

Disclaimer:

The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.