# SAFETY DATA SHEET



**RIEGLER Rust shock** 

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

1.1 Product identifier	
Product name	: RIEGLER Rust shock
UFI	: KRT2-F05T-900Q-V3HR
Product code	: R3190/400 / ID-Nr. 114572
Color	: Blue.
Product type	: Aerosol.

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

Identified uses		
Aerosol product		
Uses advised against	Reason	
Not applicable.		

#### 1.3 Details of the supplier of the safety data sheet

RIEGLER & Co. KG Schützenstr. 27, D-72574 Bad U Phone : +49 (0) 7125/9497-0, F E-Mail : zedok@riegler.de Internet : www.riegler.de	
e-mail address of person responsible for this SDS	: Abteilung eDocumentation Phone : +49 (0) 7125/9497-0 Fax : +49 (0) 7125/9497-97 zedok@riegler.de

1.4 Emergency telephone number

#### National advisory body/Poison Center

Telephone number: Giftnotrufzentrale Bonn<br/>Phone : +49(0)228-19 240

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 1, H222, H229 Eye Irrit. 2, H319 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms



# SECTION 2: Hazards identification

Signal word	:	Danger
Hazard statements	:	H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if heated. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements		
Prevention	:	<ul> <li>P280 - Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P261 - Avoid breathing dust or mist.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P251 - Do not pierce or burn, even after use.</li> </ul>
Response	:	<ul> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	:	P405 - Store locked up. P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of waste according to applicable legislation.
Hazardous ingredients	:	propan-2-ol
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII		This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Aspiration hazard - Not applicable.

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]
butane	REACH #: 01-2119474691-32 EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]

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

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Isobutane	REACH #: 01-2119485395-27 EC: 200-857-2 CAS: 75-28-5 Index: 601-004-00-0	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
Distillates (petroleum), hydrotreated light paraffinic	EC: 265-158-7 CAS: 64742-55-8	≥1 - ≤3	Asp. Tox. 1, H304	-	[1]
Distillates (petroleum), hydrotreated light naphthenic	REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6	≥1 - ≤3	Asp. Tox. 1, H304	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

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### **SECTION 4: First aid measures**

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

6.1 Personal precautions, protective equipment and emergency procedures

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

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	conta Do no and c adequ Store explo Use c	n appropriate personal protective equipment (see Section 8). Pressurized iner: protect from sunlight and do not expose to temperatures exceeding 50°C. of pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin dothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with uate ventilation. Wear appropriate respirator when ventilation is inadequate. and use away from heat, sparks, open flame or any other ignition source. Use sion-proof electrical (ventilating, lighting and material handling) equipment. only non-sparking tools. Empty containers retain product residue and can be rdous.
Advice on general occupational hygiene	handi eatino equip	g, drinking and smoking should be prohibited in areas where this material is ed, stored and processed. Workers should wash hands and face before g, drinking and smoking. Remove contaminated clothing and protective ment before entering eating areas. See also Section 8 for additional nation on hygiene measures.

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

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

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Seveso Directive - Reporting thresholds

#### Danger criteria

	Notification and MAPP threshold	Safety report threshold
P3a	150 tonne	500 tonne

#### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Isopropyl alcohol	TRGS 900 OEL (Germany, 4/2023).TWA: 500 mg/m³ 8 hours.PEAK: 1000 mg/m³ 15 minutes.TWA: 200 ppm 8 hours.PEAK: 400 ppm 15 minutes.DFG MAC-values list (Germany, 7/2022).TWA: 200 ppm 8 hours.PEAK: 400 ppm, 4 times per shift, 15 minutes.TWA: 500 mg/m³ 8 hours.PEAK: 400 ppm, 4 times per shift, 15 minutes.TWA: 500 mg/m³ 8 hours.PEAK: 1000 mg/m³, 4 times per shift, 15 minutes.
butane	<ul> <li>TRGS 900 OEL (Germany, 7/2021).</li> <li>TWA: 2400 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 9600 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 1000 ppm 8 hours.</li> <li>PEAK: 4000 ppm 15 minutes.</li> <li>DFG MAC-values list (Germany, 10/2021). [Butane]</li> <li>TWA: 1000 ppm 8 hours.</li> <li>PEAK: 4000 ppm, 4 times per shift, 15 minutes.</li> <li>TWA: 2400 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 9600 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> </ul>
Isobutane	<ul> <li>TRGS 900 OEL (Germany, 7/2021).</li> <li>TWA: 2400 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 9600 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 1000 ppm 8 hours.</li> <li>PEAK: 4000 ppm 15 minutes.</li> <li>DFG MAC-values list (Germany, 10/2021). [Butane]</li> <li>TWA: 1000 ppm 8 hours.</li> <li>PEAK: 4000 ppm, 4 times per shift, 15 minutes.</li> <li>TWA: 2400 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 9600 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> </ul>

#### **Biological exposure indices**

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

Product/ingredient name propan-2-ol	Exposure indices DFG BEI-values list (Germany, 7/2022) BEI: 25 mg/I, acetone [in blood]. Sampling time: end of exposure or end of shift. BEI: 25 mg/I, acetone [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 25 mg/I, acetone [in whole blood]. Sampling time: end of exposure or end of shift. BEI: 25 mg/I, acetone [in urine]. Sampling time: end of exposure or end of shift.
procedures European Star assessment of values and me atmospheres - of exposure to (Workplace at for the measure	build be made to monitoring standards, such as the following: Indard EN 689 (Workplace atmospheres - Guidance for the f exposure by inhalation to chemical agents for comparison with limit easurement strategy) European Standard EN 14042 (Workplace - Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 mospheres - General requirements for the performance of procedures rement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Isopropyl alcohol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	51 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	178 mg/m³	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	1000 mg/ m³	Workers	Systemic
Distillates (petroleum), hydrotreated light paraffinic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m <sup>3</sup>	Workers	Local
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	Distillates (petroleum), hydrotreated light naphthenic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
		DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	1.19 mg/m³	General population	Local
		DNEL	Long term Inhalation	2.73 mg/m³	Workers	Systemic
		DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local

### PNECs

No PNECs available.

8.2 Exposure controls			
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.		
Individual protection meas	sures		
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.		
Skin protection			
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2		
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.		
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>		
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter		
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# **SECTION 8: Exposure controls/personal protection**

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to
controls	ensure they comply with the requirements of environmental protection legislation.
	In some cases, fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

5.1 mormation on basic physical	a	na chemical properties
<u>Appearance</u>		
Physical state	:	Gas. [Aerosol]
Color	:	Blue.
Odor	:	Alcohol-like.
Odor threshold	:	Not available.
Melting point/freezing point	:	Not applicable.
Initial boiling point and boiling range	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit	:	Not available.
Flash point	:	Closed cup: Not applicable.
Auto-ignition temperature	:	>200°C (>392°F)
Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	:	Not applicable.
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapor pressure	:	Not available.
Relative density	:	Not applicable.
Density	:	0.06 to 0.65 g/cm <sup>3</sup> [20°C (68°F)]
Vapor density	:	Not available.
Particle characteristics		
Median particle size	:	Not applicable.
9.2 Other information		
9.2.1 Information with regard to		
Heat of combustion	:	17 kJ/g
Explosive properties	:	Not available.
Oxidizing properties	:	Not available.
<u>Aerosol product</u>		
Type of aerosol	:	Spray
9.2.2 Other safety characteristic	S	

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Reactive or incompatible with the following materials: oxidizing materials.

# **SECTION 11: Toxicological information**

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

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Distillates (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	3900 mg/m³	4 hours
Distillates (petroleum), hydrotreated light naphthenic	LC50 Inhalation Dusts and mists	Rat	2180 mg/m³	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-

**Conclusion/Summary** : Not available.

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
propan-2-ol	5000	12800	N/A	N/A	N/A

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Distillates (petroleum), hydrotreated light naphthenic	Skin - Moderate irritant	Rabbit	-	24 hours 0.5 MI	-
	Skin - Severe irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Not available.				
Sensitization					

# **SECTION 11: Toxicological information**

:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
<u>(</u>	<u>single exposure)</u>
	: : : :

Product/ingredient name	Category	Route of exposure	Target organs
propan-2-ol	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Product/ingredient name	Result
Distillates (petroleum), hydrotreated light paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light naphthenic	ASPIRATION HAZARD - Category 1

Information o	n the likely	:	Not available.

### routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.

## **SECTION 11: Toxicological information**

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Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

### 11.2 Information on other hazards

- **11.2.1 Endocrine disrupting properties** Not available.
- 11.2.2 Other information
- Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Isopropyl alcohol	Acute EC50 7550 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Conclusion/Summary	: Not available.	•	

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Isopropyl alcohol	0.05	-	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

# **SECTION 12: Ecological information**

### 12.7 Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	<ul> <li>The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</li> </ul>
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA	
14.1 UN number or ID number	UN1950	UN1950	UN1950	UN1950	
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable	
14.3 Transport hazard class(es)	2	2	2.1	2.1	
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.	
Additional information					
ADR/RID	Special	<u>quantity</u> 1 L <u>provisions</u> 190, 327, 6 <u>code</u> (D)	625, 344		

	ADR Classification Code: 5F
ADN	: <u>Special provisions</u> 190, 327, 625, 344
IMDG	: <u>Emergency schedules</u> F-D, S-U <u>Special provisions</u> 63, 190, 277, 327, 344, 381, 959
ΙΑΤΑ	<ul> <li><u>Quantity limitation</u> Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203.</li> <li><u>Special provisions</u> A145, A167, A802</li> </ul>

# **SECTION 14: Transport information**

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in** : Not available. bulk according to IMO instruments

# SECTION 15: Regulatory information

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

### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorization

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	Designation [Usage]	
butane isobutane		≥10 - ≤25 ≥10 - ≤25	40 40	
Labeling	: Not applical	ole.		
<u>Other EU regulations</u>				
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors	: Not applical	ole.		
Ozone depleting substance Not listed.	<u>es (1005/2009/I</u>	<u>EU)</u>		
Prior Informed Consent (P Not listed.	<u>IC) (649/2012/E</u>	<u>U)</u>		
Persistent Organic Polluta Not listed.	<u>nts</u>			
Aerosol dispensers	:			
	3			



Extremely flammable

#### Seveso Directive

NEGLER Rust shock			
ECTION 15: Regula	tory information		
This product is controlled un	-		
Danger criteria			
Category			
P3a			
Annex VIIA - Labelling f	or Contents		
dentification		Concentration	
	reated light naphthenic, n-butane,	30% and more	
sobutane VOC content	: 94.9 %		
VOC (g/L)	: 586.4 g/L		
National regulations			
Storage class (TRGS 510)	: 2B		
Hazardous incident ordina			
	der the Germany Hazardous Incide	nt Ordinance.	
Danger criteria	-		
Category			Reference number
P3a			1.2.3.1
Hazard class for water	: 1		I
Technical instruction on	: TA-Luft Number 5.2.5: 85-100%		
air quality control	TA-Luft Class II - Number 5.2.7		
air quality control International regulations		.1.1: <b>2-6%</b>	
air quality control International regulations	TA-Luft Class II - Number 5.2.7	.1.1: <b>2-6%</b>	
air quality control International regulations Chemical Weapon Conventi Not listed.	TA-Luft Class II - Number 5.2.7	.1.1: <b>2-6%</b>	
air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol	TA-Luft Class II - Number 5.2.7	.1.1: <b>2-6%</b>	
air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol Not listed.	TA-Luft Class II - Number 5.2.7	.1.1: <b>2-6%</b>	
air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol Not listed. Stockholm Convention on F	TA-Luft Class II - Number 5.2.7	.1.1: <b>2-6%</b>	
air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol Not listed.	TA-Luft Class II - Number 5.2.7	.1.1: <b>2-6%</b>	
air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol Not listed. Stockholm Convention on F Not listed.	TA-Luft Class II - Number 5.2.7	.1.1: <b>2-6%</b>	
air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol Not listed. Stockholm Convention on F Not listed.	TA-Luft Class II - Number 5.2.7	.1.1: <b>2-6%</b>	
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air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol Not listed. Stockholm Convention on F Not listed. Rotterdam Convention on P Not listed. UNECE Aarhus Protocol on Not listed.	TA-Luft Class II - Number 5.2.7 Con List Schedules I, II & III Chem Persistent Organic Pollutants Prior Informed Consent (PIC) POPs and Heavy Metals	.1.1: <b>2-6%</b>	
air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol Not listed. Stockholm Convention on P Not listed. Rotterdam Convention on P Not listed. UNECE Aarhus Protocol on Not listed. Inventory list Australia	TA-Luft Class II - Number 5.2.7 Son List Schedules I, II & III Chem Persistent Organic Pollutants Prior Informed Consent (PIC) POPs and Heavy Metals : Not determined.	.1.1: <b>2-6%</b>	
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air quality control International regulations Chemical Weapon Conventi Not listed. Montreal Protocol Not listed. Stockholm Convention on F Not listed. Rotterdam Convention on P Not listed. UNECE Aarhus Protocol on Not listed. Not listed. Inventory list Australia Canada China	TA-Luft Class II - Number 5.2.7 Son List Schedules I, II & III Chem Persistent Organic Pollutants Prior Informed Consent (PIC) POPs and Heavy Metals : Not determined. : Not determined. : Not determined.	.1.1: 2-6% icals /: Not determined. determined.	
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# SECTION 15: Regulatory information

Viet Nam

: Not determined.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

# **SECTION 16: Other information**

Indicates information	on that has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
-	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319	On basis of test data Calculation method Calculation method

#### Full text of abbreviated H statements

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurized container: may burst if
	heated.
H225	Highly flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### Full text of classifications [CLP/GHS]

Flam. Liq. 2 Press. Gas (Comp.) STOT SE 3 Date of printing	: 10/15/2024	FLAMMABLE LIQUIDS - Category 2 GASES UNDER PRESSURE - Compressed gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Flam. Gas 1A		FLAMMABLE GASES - Category 1A
Asp. Tox. 1 Eye Irrit. 2		ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Aerosol 1		AEROSOLS - Category 1

Date of printing	. 10/15/2024
Date of issue/ Date of	: 10/15/2024
revision	
Date of previous issue	: 9/11/2023
Version	: 1.1

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.