

Date Version : 5

: 15/02/2019

SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: · · · · · · · · · · · · · · · · · · ·
REACH Registration number	:
Product code	: Not available.
Product description	: Not available.
Product type	: Solid.
Other means of identification	:

- 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Wiping and cleaning various surfaces and components.
- 1.3 Details of the supplier of the safety data sheet Supplier's details ÷.

e-mail address of person responsible for this SDS

1.4 Emergency telephone number National advisory body/Poison Centre **Telephone number** ÷.

: CHEMTREC, U.S. :+1-800-424-9300 **Emergency telephone** International: +1-703-741-5970 number (with hours of 24/7 operation)

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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]

Flam. Sol. 2, H228

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.

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

2.2 Label elements

Hazard pictograms



Signal word : Warning Hazard statements : H228 - Flammable solid.	
Precautionary statements	
Prevention: P280 - Wear protective gloves. Wear protective clothing. Wear eye or fac protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and othe sources. No smoking.	
Response : Not applicable.	
Storage : Not applicable.	
Disposal : Not applicable.	
Supplemental label : Not applicable. elements	
Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	
Special packaging requirements	
Containers to be fitted : Not applicable. with child-resistant fastenings	
Tactile warning of danger : Not applicable.	
2.3 Other hazards Other hazards which do : None known. not result in classification	

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SECTION 3: Composition/information on ingredients

Misture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	9	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
			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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures Eve contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs. : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation 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 adverse health effects persist or are severe. 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. : Flush contaminated skin with plenty of water. Get medical attention if symptoms Skin contact occur. Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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. 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 Potential acute health effects Eye contact : No known significant effects or critical hazards.

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SECTION 4: F	First aid	measures
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Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	<u>mptoms</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing	Jse dry chemical, CO₂, water spray (fog) or foam.	
media		
Unsuitable extinguishing media	Do not use water jet or water-based fire extinguishers.	
5.2 Special hazards arising fr	the substance or mixture	
Hazards from the substance or mixture	Flammable solid.	
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 here 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. Jse water spray to keep fire-exposed containers cool.	: if
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained preathing 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.	or

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective equipment and emergency procedures	
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. Put on appropriate personal protective equipment.	
For emergency responders	: If specialised 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".	

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SECTION 6: Accidental release measures

6.2 Environmental precautions	:	Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	со	ntainment and cleaning up
Spill	:	Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
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	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

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

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SECTION 8: Exposure controls/personal protection

Product/ingredient name		Exposure limit values
Isopropyl alcohol		EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 1250 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m ³ 8 hours. TWA: 400 ppm 8 hours.
Recommended monitoring procedures	atmosphere or b of the ventilation protective equip the following: E the assessment limit values and atmospheres - C of exposure to c (Workplace atmospheres)	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness or other control measures and/or the necessity to use respiratory ment. Reference should be made to monitoring standards, such as uropean Standard EN 689 (Workplace atmospheres - Guidance for of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment hemical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedures ment of chemical agents) Reference to national guidance nethods for the determination of hazardous substances will also be
DNELs/DMELs No DNELs/DMELs available.		
PNECs No PNECs available		
3.2 Exposure controls		
Appropriate engineering controls		dequate ventilation. The engineering controls also need to keep gas, concentrations below any lower explosive limits. Use explosion- n equipment.
Individual protection measur	<u>res</u>	
Hygiene measures	before eating, s	prearms and face thoroughly after handling chemical products, moking and using the lavatory and at the end of the working period. wash stations and safety showers are close to the workstation
Eye/face protection	: Recommended	: Safety glasses.
Skin protection		
Hand protection	be worn at all ti this is necessar check during us should be noted different for diffe	ant, impervious gloves complying with an approved standard should mes when handling chemical products if a risk assessment indicates y. Considering the parameters specified by the glove manufacturer, se that the gloves are still retaining their protective properties. It d that the time to breakthrough for any glove material may be erent glove manufacturers. In the case of mixtures, consisting of nees, the protection time of the gloves cannot be accurately
Body protection	being performe before handling wear anti-static discharges, clo European Stand	ctive equipment for the body should be selected based on the task d and the risks involved and should be approved by a specialist this product. When there is a risk of ignition from static electricity, protective clothing. For the greatest protection from static thing should include anti-static overalls, boots and gloves. Refer to dard EN 1149 for further information on material and design nd test methods.

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SECTION 8: Exposure controls/personal protection

Other skin protection	 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.
Respiratory protection	: Recommended: Vapour respirator.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	and chemical properties
Appearance	
Physical state	: Solid. [Solid containing liquid (prewetted wiper)]
Colour	: White substrate with colourless liquid.
Odour	: Rubbing alcohol.
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: 40°C
Evaporation rate	: Not available.
Flammability (solid, gas)	: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and shocks and mechanical impacts.
Upper/lower flammability or explosive limits	: Lower: 2% Upper: 12.7%
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: Not available.
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: 399°C
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.

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.

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SECTION 10: Stabilit	y and reactivity
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).

- **10.5 Incompatible materials** : Highly reactive or incompatible with the following materials: oxidising materials.
- **10.6 Hazardous** : Under normal conditions of storage and use, hazardous decomposition products decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isopropyl alcohol	LD50 Dermal LD50 Oral	Rabbit Rat	12800 mg/kg 5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl alcohol	Eyes - Moderate irritant Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit Rabbit Rabbit	- - -	24 hours 100 mg 10 mg 100 mg 500 mg	- - -

Sensitisation

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Target organs
Isopropyl alcohol	Category 3	Narcotic effects

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on likely routes : Dermal contact. Eye contact. Inhalation. Ingestion.

of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristicsEye contact: No known significant effects or critical hazards.

Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<u>Short term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health effe	ects
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.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Isopropyl alcohol	Acute LC50 1400000 µg/L Marine water	Crustaceans - Crangon crangon	48 hours 48 hours 96 hours

12.2 Persistence and degradability

There is no data 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 (K _{oc})	: No data available.
Mobility	: Not available.

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SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.
vPvB	: Not applicable.

12.6 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

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should 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	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	 This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN3175	UN3175	UN3175	UN3175
14.2 UN proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O. S. (Isopropyl alcohol)			
14.3 Transport hazard class(es)	4.1	4.1	4.1	4.1
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	No.	No.	No.	No.



SECTION 14: Transport information

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Ozone depleting substances (1005/2009/EU) Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

15.2 Chemical safety	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

SECTION 16: Other information

Abbreviations and acronyms	ATE = Acute Toxicity Estimate 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
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification	
Flam. Sol. 2, H228	Expert judgment	

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.



SECTION 16: Other information

Full text of classifications [CLP/GHS]

Flam. Liq. 2, H225 Flam. Sol. 2, H228	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE SOLIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

History

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Prepared by	: KMK Regulatory Services Inc.

Notice to reader

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