According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 22.2 Revision Date: 10/05/2019 Print Date: 04/24/2020 **SECTION 1. IDENTIFICATION** Product name : IPA Product code : S1111, ZA07A Manufacturer or supplier's details **The Chemical Supply** Company 9595 Six Pines Dr., Ste. 8210 The Woodlands, TX 77380 :832-706-4045 SDS Request :832-706-4045 **Customer Service Emergency telephone number** Chemtrec Domestic (24 hr) : 1-800-424-9300 Chemtrec International (24 : 1-703-527-3887 hr) Recommended use of the chemical and restrictions on use Recommended use : Industrial Solvent. Restrictions on use Advice in this document relates only to product as originally : supplied. Other derivative chemicals will have different properties and hazards. Advice should be sought on their safe handling and use.

### **SECTION 2. HAZARDS IDENTIFICATION**

	GHS Classification Flammable liquids	: Category 2	
	Eye irritation	: Category 2A	
	Specific target organ toxicity - single exposure (Inhalation, Oral)	: Category 3	
	GHS Label element Hazard pictograms		
	Signal word	: Danger	
	Hazard statements	<ul> <li>PHYSICAL HAZARDS:</li> <li>H225 Highly flammable liquid and vapour.</li> <li>HEALTH HAZARDS:</li> <li>H319 Causes serious eye irritation.</li> </ul>	
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	H336 May cause drowsiness or ENVIRONMENTAL HAZARDS Not classified as an environme	8:
Precautionary statements	<ul> <li>Not classified as an environme</li> <li>Prevention:</li> <li>P210 Keep away from heat/spa No smoking.</li> <li>P233 Keep container tightly clo P240 Ground/bond container at P241 Use explosion-proof elect ment.</li> <li>P242 Use only non-sparking too P243 Take precautionary meas P261 Avoid breathing mist or va P264 Wash hands thoroughly a P271 Use only outdoors or in a P280 Wear protective gloves/ p face protection.</li> <li>Response:</li> <li>P303 + P361 + P353 IF ON SK immediately all contaminated cl shower.</li> <li>P370+P378 In case of fire: Use P305 + P351 + P338 IF IN EYE for several minutes. Remove co to do. Continue rinsing.</li> <li>P337 + P313 If eye irritation pe tion.</li> <li>P304 + P340 IF INHALED: Rem at rest in a position comfortable P312 Call a POISON CENTER unwell.</li> <li>Storage:</li> <li>P403 + P235 Store in a well-ve P405 Store locked up.</li> <li>Disposal:</li> <li>P501 Dispose of contents and o site or reclaimer in accordance tions.</li> </ul>	arks/open flames/hot surfaces. sed. nd receiving equipment. trical/ ventilating/ lighting/ equip ols. sures against static discharge. apours. after handling. well-ventilated area. protective clothing/ eye protection (IN (or hair): Remove/ Take off lothing. Rinse skin with water/ e appropriate media for extinction ES: Rinse cautiously with water pontact lenses, if present and ear rsists: Get medical advice/ atter nove victim to fresh air and kee e for breathing. or doctor/ physician if you feel ntilated place. Keep cool.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable airvapour mixtures can occur.

Slightly irritating to respiratory system.

The classification of this material is based on OSHA HCS 2012 criteria.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

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Synonyms	: IPA, Isopropanol, Propan-2-ol, F sec-, Dimethyl carbinol	Propanol, sec-, Propyl alcohol,

#### Hazardous components

Chemical Name	Synonyms	CAS-No.	Concentration (%)
Isopropyl alcohol	propan-2-ol	67-63-0	100 <=

### **SECTION 4. FIRST-AID MEASURES**

General advice	n general no treatment is necessary, howev dvice.	er, obtain medical
If inhaled	Remove to fresh air. If rapid recovery does a ransport to nearest medical facility for addit	
In case of skin contact	Remove contaminated clothing. Flush expose er and follow by washing with soap if availa persistent irritation occurs, obtain medical	ble.
In case of eye contact	mmediately flush eyes with large amounts of 5 minutes while holding eyelids open. Tran st medical facility for additional treatment.	
If swallowed	swallowed, do not induce vomiting: transp nedical facility for additional treatment. If vo pontaneously, keep head below hips to pre- any of the following delayed signs and syr within the next 6 hours, transport to the nea y: fever greater than 101° F (38.3°C), short hest congestion or continued coughing or v	miting occurs vent aspiration. nptoms appear est medical facili- ness of breath,
Most important symptoms and effects, both acute and delayed	material enters lungs, signs and symptom oughing, choking, wheezing, difficulty in broongestion, shortness of breath, and/or feve ye irritation signs and symptoms may inclu ation, redness, swelling, and/or blurred visi	eathing, chest r. de a burning sen-
Protection of first-aiders	Vhen administering first aid, ensure that yo ppropriate personal protective equipment a ncident, injury and surroundings.	
Immediate medical attention, special treatment	Potential for chemical pneumonitis. Call a doctor or poison control center for gui	dance.

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam, water spray or fog. Dry chemical pow- der, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	None
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Specific hazards during fire- fighting	: The vapour is heavier than air, sp distant ignition is possible. Carbon monoxide may be evolve occurs.	
Specific extinguishing meth- ods	: Standard procedure for chemical	fires.
Further information	: Clear fire area of all non-emerger Keep adjacent containers cool by	
Special protective equipment for firefighters	: Proper protective equipment inclu- gloves are to be worn; chemical r large contact with spilled product Breathing Apparatus must be wo a confined space. Select fire fight relevant Standards (e.g. Europe	resistant suit is indicated if is expected. Self-Contained rn when approaching a fire in ter's clothing approved to

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Observe the relevant local and international regulations Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Vapour may form an explosive mixture with air.
	:	Avoid contact with skin, eyes and clothing. Isolate hazard area and deny entry to unnecessary or unpro- tected personnel. Stay upwind and keep out of low areas.
Environmental precautions	:	Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Ventilate contaminated area thoroughly. Monitor area with combustible gas indicator.
Methods and materials for containment and cleaning up	:	For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or

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safe disposal. Allow residues to appropriate absorbent material a contaminated soil and dispose of	ind dispose of safely Remove
: For guidance on selection of per- see Chapter 8 of this Safety Data For guidance on disposal of spill- this Safety Data Sheet.	a Sheet.
U.S. regulations may require rep al to the environment which exce (refer to Chapter 15) to the Natio (800) 424-8802.	eed the reportable quantity
	<ul> <li>safe disposal. Allow residues to appropriate absorbent material a contaminated soil and dispose o</li> <li>For guidance on selection of per see Chapter 8 of this Safety Data For guidance on disposal of spill this Safety Data Sheet.</li> <li>U.S. regulations may require rep al to the environment which exce (refer to Chapter 15) to the National States (refer to Chapter 15</li></ul>

### SECTION 7. HANDLING AND STORAGE

Technical measures	Avoid breathing of or direct contact with material. Or well ventilated areas. Wash thoroughly after handling guidance on selection of personal protective equipm Chapter 8 of this Safety Data Sheet. Use the information in this data sheet as input to a ri- sessment of local circumstances to help determine a ate controls for safe handling, storage and disposal of material. Ensure that all local regulations regarding handling a age facilities are followed.	g. For ent see sk as- ppropri- of this
Precautions for safe handling	Avoid contact with skin, eyes and clothing. Use local exhaust ventilation if there is risk of inhalat vapours, mists or aerosols.	ion of
Avoidance of contact	Strong oxidising agents.	
Advice on protection against fire and explosion	Bulk storage tanks should be diked (bunded). Exting naked flames. Do not smoke. Remove ignition sourc sparks. Electrostatic discharge may cause fire. Ensu cal continuity by bonding and grounding (earthing) al ment to reduce the risk. The vapours in the head spa storage vessel may lie in the flammable/explosive ra hence may be flammable. Properly dispose of any co nated rags or cleaning materials in order to prevent f NOT use compressed air for filling, discharging, or he operations.	es. Avoid re electri- l equip- ace of the nge and ontami- ires. Do
Product Transfer	Refer to guidance under Handling section.	
<b>Storage</b> Conditions for safe storage, including any incompatibili- ties	The vapour is heavier than air. Beware of accumulat and confined spaces. Refer to section 15 for any additional specific legislat ering the packaging and storage of this product.	•

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Packaging material	: Suitable material: For containers, or steel, stainless steel. Unsuitable material: Natural, butyl, n	ũ
Container Advice	: Containers, even those that have be explosive vapours. Do not cut, drill, g similar operations on or near contain	prind, weld or perform
Specific use(s)	: Not applicable	
	Ensure that all local regulations rega age facilities are followed. See additional references that provid American Petroleum Institute 2003 (I tions Arising out of Static, Lightning a National Fire Protection Agency 77 ( on Static Electricity). CENELEC CLC/TR 50404 (Electrost for the avoidance of hazards due to s	le safe handling practices: Protection Against Igni- and Stray Currents) or Recommended Practices atics – Code of practice

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Isopropyl alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm	OSHA Z-1
			980 mg/m3	

### Components with workplace control parameters

### **Biological occupational exposure limits**

Component	CAS-No.	Control pa- rameters	Biological specimen	Sampling time	Permissible concentra-	Basis
					tion	
Isopropyl alcohol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

### **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances

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Version 22.2 Revision Date: 10/05/2019 Print Date: 04/24/2020 http://www.hse.gov.uk/ Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil **Engineering measures** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Local exhaust ventilation is recommended. Firewater monitors and deluge systems are recommended. Eve washes and showers for emergency use. Where material is heated, spraved or mist formed, there is greater potential for airborne concentrations to be generated. General Information: Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or subsequent recycle. Personal protective equipment Respiratory protection If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation.

Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [boiling point >65  $^{\circ}$ C (149  $^{\circ}$ F)].

Respirator selection, use and maintenance should be in ac-

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	cordance with the requirement Protection Standard, 29 CFR	
Hand protection Remarks	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374 US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: Butyl rubber. Nitrile rubber. Incidental contact/Splash protection: PVC or neoprene rubber gloves. For continuous contact we recommend gloves with breakthrough time of more than 24 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glov resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should b typically greater than 0.35 mm depending on the glove mak and model. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice	
Eye protection	<ul> <li>from glove suppliers. Contamin placed. Personal hygiene is a care. Gloves must only be wor gloves, hands should be wash cation of a non-perfumed mois</li> <li>Wear goggles for use against Wear full face shield if splashed</li> </ul>	nated gloves should be re- key element of effective hand rn on clean hands. After using led and dried thoroughly. App sturizer is recommended. liquids and gas.
Skin and body protection	: Wear antistatic and flame reta assessment deems it so. Skin protection is not required use.	rdant clothing if a local risk
	For prolonged or repeated exp over parts of the body subject If repeated and/or prolonged s is likely, then wear suitable glo ard, and provide employee ski	to exposure. kin exposure to the substance oves tested to relevant Stand-
Protective measures	: Personal protective equipment mended national standards. C	
Hygiene measures	: Wash hands before eating, dri toilet. Launder contaminated clothing	
Environmental exposure of	ontrols	
General advice	<ul> <li>Local guidelines on emission I must be observed for the disch vapour.</li> <li>Minimise release to the enviro sessment must be made to en</li> </ul>	harge of exhaust air containin

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	ronmental legislation. Information on accidental release measures are to be found in section 6.
SECTION 9. PHYSICAL AND CHE	MICAL PROPERTIES
Appearance	: Liquid.
Colour	: clear
Odour	: characteristic
Odour Threshold	: Data not available
рН	: Not applicable
Melting point/freezing point	: -88 °C / -126 °F
Boiling point/boiling range	: 82 - 83 °C / 180 - 181 °F
Flash point	: 12 °C / 54 °F Method: Abel
Evaporation rate	: 1.5 Method: ASTM D 3539, nBuAc=1
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: upper flammability limit 12 %(V)
Lower explosion limit	: lower flammability limit 2 %(V)
Vapour pressure	: 6.020 Pa (20 °C / 68 °F)
Relative vapour density	: 2 (20 °C / 68 °F)

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Density : 785 - 786 kg/m3 (20 °C / 68 °F) Method: ASTM D4052

Solubility(ies) Water solubility	: completely miscible
Solubility in other solvents	: Readily soluble in various organic solvents.
Partition coefficient: n- octanol/water	: log Pow: 0.05
Auto-ignition temperature	: 425 °C / 797 °F Method: ASTM D-2155

: 0.78 - 0.79 (20 °C / 68 °F)

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Relative density

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Decomposition temperature	: Not applicable	
Viscosity Viscosity, dynamic	: 2.43 mPa.s	
Viscosity, kinematic	: Data not available	
Explosive properties	: Classification Code: Not classifie	эd
Oxidizing properties	: Not applicable	
Surface tension	: 22.7 mN/m, 20 °C / 68 °F	
Conductivity	<ul> <li>Electrical conductivity: &gt; 10 000 for example liquid temperature, p and anti-static additives can great of a liquid, This material is not ex lator.</li> </ul>	oresence of contaminants, atly influence the conductivity
Molecular weight	: 60.1 g/mol	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	The product does not pose any further reactivity hazard addition to those listed in the following sub-paragraph.	ls in
Chemical stability	No hazardous reaction is expected when handled and s according to provisions	stored
Possibility of hazardous reac- tions	Reacts with strong oxidising agents.	
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sour Prevent vapour accumulation. In certain circumstances product can ignite due to static tricity.	
Incompatible materials	Strong oxidising agents.	
Hazardous decomposition products	Thermal decomposition is highly dependent on conditio complex mixture of airborne solids, liquids and gases in ing carbon monoxide, carbon dioxide, sulphur oxides ar unidentified organic compounds will be evolved when the material undergoes combustion or thermal or oxidative dation.	nclud- nd his

### SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on product testing.

### Information on likely routes of exposure

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Exposure may occur via inhala ingestion.	ation, ingestion, skin absorption, skin or eye contact, and accidental
Acute toxicity	
Product: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Low toxicity:
Acute inhalation toxicity	: Remarks: Low toxicity by inhalation.
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity:
Skin corrosion/irritation	
Product: Remarks: Not irritating to skin.	
Serious eye damage/eye irri	tation
Product: Remarks: Causes serious eye	irritation.
Respiratory or skin sensitis	ation
Product: Remarks: Not expected to be	a sensitiser.
Germ cell mutagenicity	
Product:	: Remarks: Not mutagenic.
Carcinogenicity	
<u>Product:</u> Remarks: Not a carcinogen.	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

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by NTP.

### **Reproductive toxicity**

Product:

Remarks: Does not impair fertility., Not a developmental toxicant.

### STOT - single exposure

#### Product:

Remarks: May cause drowsiness and dizziness.

#### STOT - repeated exposure

#### Product:

Remarks: Kidney: caused kidney effects in male rats which are not considered relevant to humans

### **Aspiration toxicity**

#### Product:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### **Further information**

#### Product:

Remarks: Exposure may enhance the toxicity of other materials., Classifications by other authorities under varying regulatory frameworks may exist.

### **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment	: Information given is based on product testing.	
Ecotoxicity		
Product: Toxicity to fish (Acute toxici- ty)	: Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l	
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	: Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l	
Toxicity to algae (Acute tox- icity)	: Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l	
Toxicity to fish (Chronic tox-	: Remarks: Data not available	
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icity)		
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	: Remarks: Data not available	
Toxicity to bacteria (Acute toxicity)	: Remarks: Practically non toxic LL/EL/IL50 > 100 mg/l	:
Persistence and degradabili	ty	
Product:		
Biodegradability	: Remarks: Readily biodegradat Oxidises rapidly by photo-cher	
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: Not expected to bioa	accumulate significantly.
Mobility in soil		
Product:		
Mobility	: Remarks: Dissolves in water. If the product enters soil, one of be mobile and may contaminat	or more constituents will or may te groundwater.
Other adverse effects		
no data available		
Product:		
Additional ecological infor- mation	: Not expected to have ozone de	epletion potential.

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	<ul> <li>Recover or recycle if possible.</li> <li>It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.</li> <li>Do not dispose into the environment, in drains or in water courses</li> <li>Waste product should not be allowed to contaminate soil or water.</li> </ul>
	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or na- tional requirements and must be complied with.

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Contaminated packaging	: Drain container thoroughly. After draining, vent in a safe pla Residues may cause an explosi Do not, puncture, cut, or weld u Send to drum recoverer or meta	on hazard. ncleaned drums.

### **SECTION 14. TRANSPORT INFORMATION**

## **National Regulations**

UN/ID/NA number Proper shipping name	ansportation Classification (49 CFR Parts 171-180) : UN 1219 : ISOPROPANOL
Class	: 3
Packing group	: 11
Labels	: 3
ERG Code	: 129
Marine pollutant	: no
International Regulation	
IATA-DGR	
UN/ID No.	: UN 1219
Proper shipping name	
Class	: 3
Packing group	: 11
Labels	: 3
IMDG-Code	
UN number	: UN 1219
Proper shipping name	: ISOPROPANOL
Class	: 3
Packing group	: II
Labels	: 3
Marine pollutant	: no
Transport in bulk according	ng to Annex II of MARPOL 73/78 and the IBC Code
Pollution category	: Z
Ship type	: 3
Product name	: Isopropyl alcohol
Special precautions for us	ser
Remarks	: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.
Additional Informatio	<ul> <li>This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitro- gen may cause asphyxiation or death. Personnel must ob- serve strict safety precautions when involved with a confined space entry.</li> </ul>

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SECTION 15. REGULATORY IN	VFORMATION	
OSHA Hazards	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
EPCRA - Emergency Plan	ning and Community Right-to-Kno	w Act
CERCLA Reportable Quai	ntity	
	ain any components with a CERCLA	
-	ardous Substances Reportable Qua ain any components with a section 30	-
SARA 311/312 Hazards	: Fire Hazard Immediate (Acute) Health Haz	zard
SARA 302	: No chemicals in this material a requirements of SARA Title III	, , ,
SARA 313	: This material does not contain known CAS numbers that exc reporting levels established by	eed the threshold (De Minimis)
<b>Clean Water Act</b> This product does not conta Section 311, Table 117.3.	ain any Hazardous Chemicals listed u	inder the U.S. CleanWater Act,
Pennsylvania Right To Kr		
Isopropyl a		57-63-0
New Jersey Right To Kno Isopropyl a		67-63-0
California Prop 65		any chemicals known to State
The components of this p	roduct are reported in the following	g inventories:
AICS	: Listed	
DSL	: Listed	
IECSC	: Listed	
ENCS	: Listed	
KECI	: Listed	
NZIoC	: Listed	
PICCS	: Listed	
EINECS	: Listed	

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

### **SECTION 16. OTHER INFORMATION**

#### **Further information**

NFPA Rating (Health, Fire, Reac- 1, 3, 0 tivity)

A vertical bar () in the left margin indicates an amendment from the previous version. Due to the conversion of this product to GHS classification and labelling, there has been a significant change to the nature of the information presented in chapter 2. : The standard abbreviations and acronyms used in this docu-Abbreviations and Acronyms ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites. ACGIH = American Conference of Governmental Industrial **Hygienists** ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut für Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing Commercial **Chemical Substances** EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous Goods

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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	LL50 = Lethal Loading fifty MARPOL = International Com- Pollution From Ships NOEC/NOEL = No Observed served Effect Level OE_HPV = Occupational Exp PBT = Persistent, Bioaccumu PICCS = Philippine Inventory Substances PNEC = Predicted No Effect O REACH = Registration Evalua Chemicals	n test method N° 346 for the omatics DMSO-extractables icals Inventory fifty cent. ective Loading/Inhibitory loading vention for the Prevention of Effect Concentration / No Ob- osure - High Production Volume lative and Toxic of Chemicals and Chemical Concentration ation And Authorisation Of o International Carriage of Dan- n limit ment s Control Act ge
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but sources of information (e.g. to Chemical Supply Health Servi data, CONCAWE, EU IUCLID regulation, etc).	oxicological data from The ices, material suppliers'
Revision Date	: 10/05/2019	
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.