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**IPA** 

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

1.1 Product identifier

Trade name : IPA

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Product code : S1111. ZA07A

CAS-No. : 67-63-0

Other means of identification IPA, Isopropanol, Propan-2-ol, Propanol, sec-, Propyl alcohol,

sec-, Dimethyl carbinol

EC-No. : 200-661-7

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

Use of the : Industrial Solvent.

Substance/Mixture

Uses advised against : 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.

This product must not be used in applications other than those

listed in Section 1 without first seeking the advice of the

supplier.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : SHELL MARKETS (MIDDLE EAST) LIMITED

> **CHEMICALS** PO Box 307 JEBEL ALI. DUBAI Unit.Arab Emir.

Telephone : +971 4 405 4400 Telefax : +971 4 329 3311

Contact for Safety Data

Sheet

1.4 Emergency telephone number

+ (65) 6542 9595 (Alert-SGS)

+31 (0)10 231 7393

UAT for SPS2020 - New ER number

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixture

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**GHS Classification** 

Flammable liquids : Category 2 Eye irritation : Category 2A

Specific target organ toxicity - single exposure (Inhalation,

Oral)

: Category 3 (Narcotic effects)

#### 2.2 Label elements

### **GHS-Labelling**

Hazard pictograms





Signal word : Danger

Hazard statements : PHYSICAL HAZARDS:

H225 Highly flammable liquid and vapour.

**HEALTH HAZARDS:** 

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

**ENVIRONMENTAL HAZARDS:** 

Not classified as an environmental hazard under GHS criteria.

Precautionary statements : **Prevention**:

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water or

shower.

P370 + P378 In case of fire: Use appropriate media to

extinguish.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P312 Call a POISON CENTER/ doctor if you feel unwell.

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	Storage: P403 + P233 Store in a well-ventilated plactightly closed. P235 Keep cool. P405 Store locked up. Disposal: P501 Dispose of contents and container to site or reclaimer in accordance with local a regulations.	o appropriate waste

#### 2.3 Other hazards

Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger.

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.

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

### 3.1 Substances

#### **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Isopropyl alcohol	67-63-0	<=100

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

## 4.1

1 Des	cription of first aid measures		
	General advice	:	Not expected to be a health hazard when used under normal conditions.
	Protection of first-aiders	:	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
	If inhaled	:	Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
	In case of skin contact	:	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
	In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue

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If swallowed	rinsing. Transport to the nearest medical facility treatment.  If swallowed, do not induce vomiting: tramedical facility for additional treatment. spontaneously, keep head below hips to If any of the following delayed signs and within the next 6 hours, transport to the facility: fever greater than 101° F (38.3°C breath, chest congestion or continued continued continued to the second s	Insport to nearest If vomiting occurs In prevent aspiration. If symptoms appear In prevent medical It is not to be a specific of the second of

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

Symptoms : Breathing of high vapour concentrations may cause central

nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and

death.

No specific hazards under normal use conditions.

Skin irritation signs and symptoms may include a burning

sensation, redness, or swelling.

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest

congestion, shortness of breath, and/or fever.

If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

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

Treatment : IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!

Call a doctor or poison control center for guidance.

Potential for chemical pneumonitis.

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, water spray or fog. Dry chemical

powder, carbon dioxide, sand or earth may be used for small

fires only.

Unsuitable extinguishing

media

: None

# 5.2 Special hazards arising from the substance or mixture

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Specific hazards during firefighting	: The vapour is heavier than air, spreads alo distant ignition is possible. Carbon monoxic if incomplete combustion occurs.	0 0
5.3 Advice for firefighters	,	
Special protective equipment for firefighters	: Proper protective equipment including cher gloves are to be worn; chemical resistant s large contact with spilled product is expecte Breathing Apparatus must be worn when a a confined space. Select fire fighter's clothir relevant Standards (e.g. Europe: EN469).	uit is indicated if ed. Self-Contained pproaching a fire in
Specific extinguishing methods	: Standard procedure for chemical fires.	
Further information	: Clear fire area of all non-emergency persor Keep adjacent containers cool by spraying	

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

## 6.1 Personal precautions, protective equipment and emergency procedures

conai procaditiono, protocti	o oquipment and emergency procedures
Personal precautions	<ul> <li>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         unprotected personnel.         Stay upwind and keep out of low areas.     </li> </ul>

### 6.2 Environmental precautions

Vironinental precautions	
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.
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#### 6.3 Methods and materials for containment and cleaning up

Methods for 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 safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

#### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet... For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

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

**General Precautions** 

: Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Ensure that all local regulations regarding handling and storage facilities are followed.

#### 7.1 Precautions for safe handling

Advice on safe handling

: Avoid contact with skin, eyes and clothing.

Use local exhaust ventilation if there is risk of inhalation of

vapours, mists or aerosols.

Bulk storage tanks should be diked (bunded).

Extinguish any naked flames. Do not smoke. Remove ignition

sources. Avoid sparks.

Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment

to reduce the risk.

The vapours in the head space of the storage vessel may lie

in the flammable/explosive range and hence may be

flammable.

Properly dispose of any contaminated rags or cleaning

materials in order to prevent fires.

Do NOT use compressed air for filling, discharging, or

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	handling operations.	
Product Transfer	: Refer to guidance under Handling section.	

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

Requirements for storage areas and containers

: The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Refer to section 15 for any additional specific legislation covering the packaging and storage of this

product.

Packaging material : Suitable material: For containers, or container linings use

mild steel, stainless steel.

Unsuitable material: Natural, butyl, neoprene or nitrile

rubbers.

Container Advice : Containers, even those that have been emptied, can contain

explosive vapours. Do not cut, drill, grind, weld or perform

similar operations on or near containers.

7.3 Specific end use(s)

Specific use(s) : Not applicable

Ensure that all local regulations regarding handling and

storage facilities are followed.

See additional references that provide safe handling practices:

American Petroleum Institute 2003 (Protection Against

Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices

on Static Electricity).

IEC/TS 60079-32-1: Electrostatic hazards, guidance

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

#### 8.1 Control parameters

**Occupational Exposure Limits** 

**Biological occupational exposure limits** 

No biological limit allocated.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

propan-2-ol : End Use: Workers

**Exposure routes: Dermal** 

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Potential health effects: Long-term systemic effects

Value: 888 mg/kg bw/day

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 500 mg/m3 End Use: Consumers Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 319 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 89 mg/m3 End Use: Consumers Exposure routes: Oral

Potential health effects: Long-term systemic effects

Value: 26 mg/kg bw/day

## **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 http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany http://www.dquv.de/inhalt/index.isp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

#### 8.2 Exposure controls

Engineering measures 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.

Eye washes and showers for emergency use.

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

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:

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#### 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

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

Eye protection : Wear goggles for use against liquids and gas.

Wear full face shield if splashes are likely to occur.

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 240 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 glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make 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 from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Skin and body protection

: Wear antistatic and flame-retardant clothing, if a local risk

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assessment deems it so.

Skin protection is not required under normal conditions of use. For prolonged or repeated exposures use impervious clothing

over parts of the body subject to exposure.

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to relevant Standard,

and provide employee skin care programmes.

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 [Type A

boiling point >65°C (149°F)].

Thermal hazards : Not applicable

### **Environmental exposure controls**

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

vapour.

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

environmental legislation.

Information on accidental release measures are to be found in

section 6.

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

#### 9.1 Information on basic physical and chemical properties

Appearance : Liquid.

Colour : clear

Odour : characteristic

Odour Threshold : Data not available

pH : Not applicable

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Melting point/freezing point : -88 °C
Boiling point/boiling range : 82 - 83 °C

Flash point : 12 °C

Method: closed cup

Evaporation rate : 1,5

Method: ASTM D 3539, nBuAc=1

Flammability

Flammability (solid, gas) : Not applicable

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit : 12 %(V)

Lower explosion limit : 2 %(V)

Vapour pressure : 4,1 kPa (20 °C)

Relative vapour density : 2 (20 °C)

Relative density : 0,78 - 0,79 (20 °C)

Method: ASTM D4052

Density : 785 - 786 kg/m3 (20 °C)

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 °CMethod: ASTM D-2155

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : 2,43 mPa.sMethod: ASTM D445

Viscosity, kinematic : Data not available

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Explosive properties : Not classified

Oxidizing properties : Not applicable

9.2 Other information

Surface tension : 22,7 mN/m, 20 °C

Conductivity: > 10,000 pS/m

A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid, This material is not expected to be

a static accumulator.

Molecular weight : 60,1 g/mol

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

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

#### 10.2 Chemical stability

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

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

10.4 Conditions to avoid

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

Prevent vapour accumulation.

In certain circumstances product can ignite due to static

electricity.

10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition

products

: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides

including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative

degradation.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

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

> Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

exposure

Information on likely routes of : Exposure may occur via inhalation, ingestion, skin absorption,

skin or eye contact, and accidental ingestion.

## **Acute toxicity**

## **Components:**

Isopropyl alcohol:

Acute oral toxicity : LD50 Rat: > 5000 mg/kg

Remarks: Low toxicity

Acute inhalation toxicity : LC50 Rat, male and female: > 10000 ppm

Exposure time: 6 h

Method: Test(s) equivalent or similar to OECD Test Guideline

Assessment: The substance or mixture is classified as specific

target organ toxicant, single exposure, category 3 with

narcotic effects.

Remarks: Low toxicity by inhalation.

Acute dermal toxicity : LD50 Rabbit: > 5000 mg/kg

Remarks: Low toxicity

#### Skin corrosion/irritation

#### Components:

Isopropyl alcohol:

Remarks: Not irritating to skin.

### Serious eye damage/eye irritation

#### **Components:**

## Isopropyl alcohol:

Species: Rabbit Exposure time: 24 h

Method: Test(s) equivalent or similar to OECD Test Guideline 405

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Remarks: Irritating to eyes.

Species: Rabbit Exposure time: 48 h

Method: Test(s) equivalent or similar to OECD Test Guideline 405

Remarks: Irritating to eyes.

Species: Rabbit Exposure time: 72 h

Method: Test(s) equivalent or similar to OECD Test Guideline 405

Remarks: Irritating to eyes.

### Respiratory or skin sensitisation

## **Components:**

## Isopropyl alcohol: Species: Guinea pig Result: negative Method: Buehler Test

Remarks: Not a sensitiser., Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

### **Components:**

### Isopropyl alcohol:

Genotoxicity in vitro : Remarks: Based on available data, the classification criteria

are not met.

: Remarks: Not mutagenic.

#### Carcinogenicity

### **Components:**

### Isopropyl alcohol:

Remarks: Not a carcinogen.

Material	GHS/CLP Carcinogenicity Classification
Isopropyl alcohol	No carcinogenicity classification.

Material	Other Carcinogenicity Classification
Isopropyl alcohol	IARC: Group 3: Not classifiable as to its carcinogenicity to humans

#### Reproductive toxicity

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#### **Components:**

### Isopropyl alcohol:

Remarks: Does not impair fertility., Not a developmental toxicant., Based on available data, the classification criteria are not met.

#### STOT - single exposure

#### Components:

#### Isopropyl alcohol:

Remarks: May cause drowsiness and dizziness.

## STOT - repeated exposure

#### Components:

#### Isopropyl alcohol:

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

## **Aspiration toxicity**

#### Components:

## Isopropyl alcohol:

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

#### **Further information**

#### Components:

#### Isopropyl alcohol:

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

## **SECTION 12: Ecological information**

## 12.1 Toxicity

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

Unless indicated otherwise, the data presented is

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representative of the product as a whole, rather than for

individual component(s).

**Components:** 

Isopropyl alcohol:

Toxicity to fish (Acute : Remarks: Practically non toxic:

toxicity) LL/EL/IL50 > 100 mg/l

Toxicity to daphnia and other

aquatic invertebrates (Acute

toxicity)

Toxicity to algae (Acute

toxicity)

: Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

: Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to bacteria (Acute

toxicity)

Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic

toxicity)

: Remarks: Data not available

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: Remarks: Data not available

12.2 Persistence and degradability

Components:

Isopropyl alcohol:

Biodegradability : Remarks: Readily biodegradable., Oxidises rapidly by photo-

chemical reactions in air.

12.3 Bioaccumulative potential

**Product:** 

Partition coefficient: n-

: log Pow: 0,05

octanol/water Components:

Isopropyl alcohol:

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

12.4 Mobility in soil

**Components:** 

Isopropyl alcohol:

Mobility : Remarks: Dissolves in water., If the product enters soil, one or

more constituents will or may be mobile and may contaminate

groundwater.

12.5 Results of PBT and vPvB assessment

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no data available

#### 12.6 Other adverse effects

## **Components:**

#### Isopropyl alcohol:

Additional ecological information

: Does not have ozone depletion potential.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Recover or recycle if possible.

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. Do not dispose into the environment, in drains or in water courses.

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

ground water, or be disposed of into the environment Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be complied with.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging : Drain container thoroughly.

After draining, vent in a safe place away from sparks and fire.

Residues may cause an explosion hazard.
Do not, puncture, cut, or weld uncleaned drums.
Send to drum recoverer or metal reclaimer.

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

Local legislation

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# **SECTION 14: Transport information**

14.1 UN number

**ADR** : 1219 **IMDG** : 1219 **IATA** : 1219

14.2 Proper shipping name

ADR : ISOPROPANOL IMDG : ISOPROPANOL

IATA : ISOPROPANOL

14.3 Transport hazard class

ADR : 3 IMDG : 3 IATA : 3

14.4 Packing group

**ADR** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

**IMDG** 

Packing group : II Labels : 3

**IATA** 

Packing group : II Labels : 3

#### 14.5 Environmental hazards

**ADR** 

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

14.7 Maritime transport in bulk according to IMO instruments

Pollution category : Z

Ship type : IBC Chapter 18 cargo, must be double hulled

**Additional Information**: This product may be transported under nitrogen blanketing.

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	Nitrogen is an odourless and invisible gas nitrogen enriched atmospheres displaces which may cause asphyxiation or death. Pobserve strict safety precautions when inv confined space entry.  Transport in bulk according to Annex II of Code	available oxygen Personnel must olved with a

## **SECTION 15: Regulatory information**

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

Other regulations : The regulatory information is not intended to be

comprehensive. Other regulations may apply to this material.

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

AIIC	:	Listed
DSL	:	Listed
IECSC	:	Listed
ENCS	:	Listed
KECI	:	Listed
NZIoC	:	Listed
PICCS	:	Listed
TSCA	:	Listed
TCSI	:	Listed

#### **SECTION 16: Other information**

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this

document 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

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	for chemical products" According	to ISO 11014 /2009
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	COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance Lis EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotox Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of E Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and New Ch Inventory EWC = European Waste Code GHS = Globally Harmonised System of Labelling of Chemicals IARC = International Agency for Resear IATA = International Air Transport Assoc IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangeror INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test met determination of polycyclic aromatics DN KECI = Korea Existing Chemicals Inven LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Load LL50 = Lethal Loading fifty MARPOL = International Convention for Pollution From Ships NOEC/NOEL = No Observed Effect Cor Observed Effect Level OE_HPV = Occupational Exposure - Hig PBT = Persistent, Bioaccumulative and PICCS = Philippine Inventory of Chemic Substances PNEC = Predicted No Effect Concentrat REACH = Registration Evaluation And A Chemicals RID = Regulations Relating to Internatio Dangerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = LIS Toxio Skinstenses Control A	ticology and existing Commercial memical Substances Classification and ch on Cancer ciation us Goods hod N° 346 for the MSO-extractables tory ding/Inhibitory loading the Prevention of meentration / No gh Production Volume Toxic cals and Chemical tion Authorisation Of mal Carriage of

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TSCA = US Toxic Substances Control Act

vPvB = very Persistent and very Bioaccumulative

TWA = Time-Weighted Average

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Further information		
Training advice	<ul> <li>Provide adequate information, instruction operators.</li> </ul>	n and training for
Other information	: A vertical bar ( ) in the left margin indicat from the previous version.	es an amendment
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but not limited sources of information (e.g. toxicological Health Services, material suppliers' data IUCLID date base, EC 1272 regulation, 6	data from Shell , CONCAWE, EU

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.