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

1.1 Product identifier

Trade name : IPA

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

Telefax

Contact for Safety Data

Sheet

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification

Flammable liquids : Category 2 Eye irritation : Category 2A

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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.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P235 Keep cool.

P405 Store locked up.

Disposal:

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P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

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 Description 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 rinsing. Transport to the nearest medical facility for additional treatment.
If swallowed	:	If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear

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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.

4.2 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

Specific hazards during

firefighting

: The vapour is heavier than air, spreads along the ground and distant ignition is possible. Carbon monoxide may be evolved

if incomplete combustion occurs.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to

relevant Standards (e.g. Europe: EN469).

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Specific extinguishing methods Further information	Standard procedure for chemical fires.Clear fire area of all non-emergency per	
	Keep adjacent containers cool by spra	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Observe the relevant lo

: 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.

6.2 Environmental 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.

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

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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

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.

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Packaging material	 Suitable material: For containers, or containers, or containers are mild steel, stainless steel. Unsuitable material: Natural, butyl, neoprubbers. 	· ·	
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 storage facilities are followed. See additional references that provide safe American Petroleum Institute 2003 (Protect Ignitions Arising out of Static, Lightning and National Fire Protection Agency 77 (Recort on Static Electricity). IEC/TS 60079-32-1: Electrostatic hazards,	e handling practices: ction Against d Stray Currents) or mmended Practices	

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

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

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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.dguv.de/inhalt/index.jsp

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 quidelines/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:

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.

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Eye protection	: Wear goggles for use against liquids and g Wear full face shield if splashes are likely t	
Hand protection		
Remarks	: Where hand contact with the product may gloves approved to relevant standards (e.g. US: F739) made from the following materia suitable chemical protection. Longer term prubber. Nitrile rubber. Incidental contact/SpPVC or neoprene rubber gloves. For conting recommend gloves with breakthrough time minutes with preference for > 480 minutes gloves can be identified. For short-term/sp recommend the same but recognize that soffering this level of protection may not be case a lower breakthrough time maybe accappropriate maintenance and replacement followed. Glove thickness is not a good prefesistance to a chemical as it is dependent composition of the glove material. Glove the typically greater than 0.35 mm depending and model. Suitability and durability of a glon usage, e.g. frequency and duration of cresistance of glove material, dexterity. Always from glove suppliers. Contaminated gloves replaced. Personal hygiene is a key element care. Gloves must only be worn on clean hygiones, hands should be washed and dried Application of a non-perfumed moisturizer.	g. Europe: EN374, als may provide protection: Butyl blash protection: nuous contact we of more than 240 where suitable lash protection we uitable gloves available and in this ceptable so long as a regimes are edictor of glove t on the exact nickness should be on the glove make ove is dependent contact, chemical ays seek advice a should be ent of effective hand hands. After using d thoroughly.
Skin and body protection	: Wear antistatic and flame-retardant clothin assessment deems it so. Skin protection is not required under normal For prolonged or repeated exposures used over parts of the body subject to exposure. If repeated and/or prolonged skin exposure is likely, then wear suitable gloves tested to and provide employee skin care programmer.	al conditions of use. impervious clothing . e to the substance o relevant Standard,
Respiratory protection	: If engineering controls do not maintain airb concentrations to a level which is adequate health, select respiratory protection equipm specific conditions of use and meeting rele Check with respiratory protective equipmer Where air-filtering respirators are unsuitable concentrations are high, risk of oxygen definitions space) use appropriate positive pressure by Where air-filtering respirators are suitable, appropriate combination of mask and filters. If air-filtering respirators are suitable for concentrations are spirators are suitable for concentrations.	e to protect worker nent suitable for the evant legislation. nt suppliers. le (e.g. airborne ficiency, confined oreathing apparatus. select an

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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

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)

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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 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

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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 and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative

degradation.

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

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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

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.

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: 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

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

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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 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

<u>Components:</u> Isopropyl alcohol:

. . . .

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

chemical reactions in air.

12.3 Bioaccumulative potential

Product:

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Partition coefficient: n-

octanol/water

: log Pow: 0,05

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

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. 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.

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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 : 3 IATA

14.4 Packing group

ADR

Packing group : 11 : F1 Classification Code Hazard Identification Number : 33 Labels 3

IMDG

Packing group : II Labels 3 IATA

: 11 Packing group 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.

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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.

Nitrogen is an odourless and invisible gas. Exposure to nitrogen enriched atmospheres displaces available oxygen which may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a

confined space entry.

Transport in bulk according to Annex II of Marpol and the IBC

Code

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 : Listed **IECSC 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

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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 fur 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

INV = Chinese Chemicals Inventory

IP346 = Institute of Petroleum test method N° 346 for the

determination of polycyclic aromatics DMSO-extractables

KECI = Korea Existing Chemicals Inventory

LC50 = Lethal Concentration fifty

LD50 = Lethal Dose fifty per cent.

LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

LL50 = Lethal Loading fifty

MARPOL = International Convention for the Prevention of

Pollution From Ships

NOEC/NOEL = No Observed Effect Concentration / No

Observed Effect Level

OE HPV = Occupational Exposure - High Production Volume

PBT = Persistent, Bioaccumulative and Toxic

PICCS = Philippine Inventory of Chemicals and Chemical

Substances

PNEC = Predicted No Effect Concentration

REACH = Registration Evaluation And Authorisation Of

Chemicals

RID = Regulations Relating to International Carriage of

Dangerous Goods by Rail

SKIN_DES = Skin Designation

STEL = Short term exposure limit

TRA = Targeted Risk Assessment

TSCA = US Toxic Substances Control Act

TWA = Time-Weighted Average

		IPA
Print Date 16.10.2024	Revision Date 09.10.2024	Version 1.3
	vPvB = very Persistent and very Bioaccumulati	ve
Further information		
Training advice	: Provide adequate information, instruction and t operators.	raining for
Other information	: A vertical bar () in the left margin indicates an from the previous version.	amendment
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but not limited to, or sources of information (e.g. toxicological data f Health Services, material suppliers' data, CON IUCLID date base, EC 1272 regulation, etc).	rom Shell

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.