Diisobutyl Ketone

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

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

1.1 Product identifier

Trade name : Diisobutyl Ketone

Product code : \$1226 CAS-No. : 108-83-8

Synonyms : DIBK

EC-No. : 203-620-1

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

Use of the : Use only in industrial processes.

Substance/Mixture

Uses advised against : This product must not be used in applications other than the

above without first seeking the advice of the supplier.

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 3

Specific target organ toxicity - : Category 3 (Respiratory Tract)

single exposure

Short-term (acute) aquatic : Category 3

hazard

1 / 20 800001033915 AE

Diisobutyl Keton		
Version 3.	Revision Date 10.02.2025	Print Date 17.02.2025

2.2 Label elements

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.

May form flammable/explosive vapour-air mixture.

Risk of explosion if heated under confinement.

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Diisobutyl Ketone	108-83-8	<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 : Flush eye with copious quantities of water.

Remove contact lenses, if present and easy to do. Continue

rinsing.

If persistent irritation occurs, obtain medical attention.

If swallowed : In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Respiratory irritation signs and symptoms may include a

	[Diisobutyl Ketone
Print Date 17.02.2025	Revision Date 10.02.2025	Version 3.0
	temporary burning sensation of the rand/or difficulty breathing. Defatting dermatitis signs and sympt burning sensation and/or a dried/crandle No specific hazards under normal uses Skin irritation signs and symptoms material sensation, redness, or swelling. Eye irritation signs and symptoms material sensation, redness, swelling, and/or lngestion may result in nausea, vomi	oms may include a cked appearance. se conditions. hay include a burning ay include a burning blurred vision.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Potential for chemical pneumonitis.

Call a doctor or poison control center for guidance.

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).

Specific extinguishing

methods

Further information

: Standard procedure for chemical fires.

: Clear fire area of all non-emergency personnel.

Keep adjacent containers cool by spraying with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Observe the relevant local and international regulations

Notify authorities if any exposure to the general public or the

3 / 20 800001033915 AE

	Di	iisobutyl Ketone
Print Date 17.02.2025	Revision Date 10.02.2025	Version 3.0
	environment occurs or is likely to occu Local authorities should be advised if scannot be contained. The vapour is heavier than air, spreaddistant ignition is possible. Vapour may form an explosive mixture Avoid contact with skin, eyes and cloth Isolate hazard area and deny entry to unprotected personnel. Stay upwind and keep out of low areas	significant spillages s along the ground and with air. ning. unnecessary or

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 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

	Diisok	outyl Ketone
Print Date 17.02.2025	Revision Date 10.02.2025	Version 3.0
	guidance on selection of personal protective Section 8 of this Safety Data Sheet. Use the information in this data sheet as input assessment of local circumstances to help deappropriate controls for safe handling, storage this material. Ensure that all local regulations regarding has storage facilities are followed.	ut to a risk etermine ge and disposal of
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 vapours, mists or aerosols. Bulk storage tanks should be diked (bunded) Extinguish any naked flames. Do not smoke, sources. Avoid sparks. Electrostatic discharge may cause fire. Ensu continuity by bonding and grounding (earthing to reduce the risk. The vapours in the head space of the storage in the flammable/explosive range and hence flammable. Properly dispose of any contaminated rags of materials in order to prevent fires. Do NOT use compressed air for filling, discharandling operations. 	re electrical g) all equipment e vessel may lie may be or cleaning
Product Transfer	: Refer to guidance under Handling section.	
7.2 Conditions for safe storage, includ	ing any incompatibilities	
Requirements for storage areas and containers	: The vapour is heavier than air. Beware of ac and confined spaces. Refer to section 15 for specific legislation covering the packaging ar product.	any additional
Packaging material	 Suitable material: For containers, or contain mild steel, stainless steel. Unsuitable material: Natural, butyl, neoprer rubbers. 	-
Container Advice	: Containers, even those that have been empt explosive vapours. Do not cut, drill, grind, we similar operations on or near containers.	The state of the s
7.3 Specific end use(s)		
Specific use(s)	: Not applicable	
	Ensure that all local regulations regarding has storage facilities are followed. See additional references that provide safe h	_

Diisobutyl Ketone	
Date 10.02.2025 Version 3.0	Print Date 17.02.2025
n Petroleum Institute 2003 (Protection Against Arising out of Static, Lightning and Stray Currents) or Fire Protection Agency 77 (Recommended Practices Electricity). 0079-32-1: 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:

2,6-dimethylheptan-4-one : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 290 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 290 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 479 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 290 mg/m3 End Use: Workers Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 80 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 145 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 145 mg/m3 End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 171 mg/m3 End Use: Consumers

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	Diis	sobutyl Ketone
Print Date 17.02.2025	Revision Date 10.02.2025	Version 3.0
	Exposure routes: Inhalation Potential health effects: Long-term local of Value: 145 mg/m3 End Use: Consumers Exposure routes: Dermal Potential health effects: Long-term system Value: 28,5 mg/kg bw/day End Use: Consumers Exposure routes: Oral Potential health effects: Long-term system Value: 7,14 mg/kg bw/day	mic effects

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 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.

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.

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.

Diisobutyl Ketone

Print Date 17.02.2025

Revision Date 10.02.2025

Version 3.0

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 : If material is handled such that it could be splashed into eyes,

protective eyewear is recommended.

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: butylrubber Nitrile rubber gloves.

Incidental contact/Splash protection: Nitrile 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 shortterm/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

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.

Wear antistatic and flame-retardant clothing, if a local risk assessment deems it so.

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

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)].

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 : Esters

Odour Threshold : Data not available
pH : Not applicable
Melting point/freezing point : Data not available
Boiling point/boiling range : 163 - 173 °C

Flash point : 47 °C

Method: IP 170

Evaporation rate : 0,2

Method: ASTM D 3539, nBuAc=1

Flammability

Flammability (solid, gas) : Data not available

Diisobutyl Ketone

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit : 6,2 %(V)

Lower explosion limit : 0,8 %(V)

Vapour pressure : 160 Pa (20 °C)

Relative vapour density : 4,9 (20 °C)

Relative density : 0,806 - 0,812 (20 °C)

Method: ASTM D4052

Density : 806 - 812 kg/m3 (20 °C)

Method: ASTM D4052

Solubility(ies)

Water solubility : 0,5 g/l (20 °C)

Solubility in other solvents : Data not available

Partition coefficient: n-

octanol/water

: log Pow: 2,9 - 3,1

Auto-ignition temperature : 345 °CMethod: ASTM D-2155

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : Data not available
Viscosity, kinematic : Data not available
Explosive properties : Not applicable
Oxidizing properties : Data not available

9.2 Other information

Surface tension : 22,6 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 : 142,24 g/mol

Diisobutyl Ketone

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

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 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 : Inhalation is the primary route of exposure although absorption may occur through skin contact or following

accidental indestion.

Acute toxicity

Components:

Diisobutyl Ketone

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

Diisobutyl Ketone:

Acute oral toxicity : LD50 Rat, male and female: > 2.000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on available data, the classification criteria

are not met.

Acute inhalation toxicity : LC50 Rat: > 10 - 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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

403

Remarks: Based on available data, the classification criteria

are not met.

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable

concentration.

Acute dermal toxicity : LD50 Rat, male and female: > 2.000 mg/kg

Method: OECD Test Guideline 402

Remarks: Based on available data, the classification criteria

are not met.

Skin corrosion/irritation

Components:

Diisobutyl Ketone:

Species: Rabbit

Method: OECD Test Guideline 404

Remarks: Slightly irritating to skin., Insufficient to classify., Repeated exposure may cause skin

dryness or cracking.

Serious eye damage/eye irritation

Components:

Diisobutyl Ketone:

Species: Rabbit

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

Remarks: Based on available data, the classification criteria are not met., Essentially non-

irritating to eyes., Vapours may be irritating to the eye.

Respiratory or skin sensitisation

Components:

Diisobutyl Ketone: Species: Guinea pig

Species. Guillea pig

Method: OECD Test Guideline 406

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

Germ cell mutagenicity

Components:

Diisobutyl Ketone

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

Diisobutyl Ketone:

Genotoxicity in vitro : Method: Test(s) equivalent or similar to OECD Guideline 471

Remarks: Based on available data, the classification criteria

are not met.

: Method: OECD Test Guideline 476

Remarks: Based on available data, the classification criteria

are not met.

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

473

Remarks: Based on available data, the classification criteria

are not met.

Germ cell mutagenicity-

Assessment

: This product does not meet the criteria for classification in

categories 1A/1B.

Carcinogenicity

Components:

Diisobutyl Ketone:

Material	GHS/CLP Carcinogenicity Classification
Diisobutyl Ketone	No carcinogenicity classification.

Reproductive toxicity

Components:

Diisobutyl Ketone:

Species: Rat

Sex: male and female Application Route: Inhalation

Method: Equivalent or similar to OECD Test Guideline 416 Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal : Species: Rat, female

development Application Route: Inhalation

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

414

Remarks: Based on available data, the classification criteria

are not met.

Species: Mouse, female Application Route: Inhalation

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

414

Remarks: Based on available data, the classification criteria

are not met.

Diisobutyl Ketone

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

: This product does not meet the criteria for classification in

Reproductive toxicity -

Assessment

categories 1A/1B.

STOT - single exposure

Components:

Diisobutyl Ketone:

Exposure routes: Inhalation

Target Organs: Respiratory system

Remarks: May cause respiratory irritation., Inhalation of vapours or mists may cause irritation to

the respiratory system.

STOT - repeated exposure

Components:

Diisobutyl Ketone:

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

Repeated dose toxicity

Components:

Diisobutyl Ketone:

Rat. male:

Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline 408

Target Organs: No specific target organs noted

Rat, male and female: Application Route: Inhalation Test atmosphere: vapour

Method: Test(s) equivalent or similar to OECD Test Guideline 412

Target Organs: No specific target organs noted

Aspiration toxicity

Components:

Diisobutyl Ketone:

Based on available data, the classification criteria are not met.

Further information

Components:

Diisobutyl Ketone:

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

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).

<u>Components:</u> Diisobutyl Ketone:

Toxicity to fish (Acute toxicity)

: LC50 (Oncorhynchus mykiss (rainbow trout)): 30 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Harmful

LL/EL/IL50 >10 <= 100 mg/l

Toxicity to daphnia and other

aquatic invertebrates (Acute

toxicity)

: EC50 (Daphnia magna (Water flea)): 37,2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Harmful

LL/EL/IL50 >10 <= 100 mg/l

Toxicity to algae (Acute

toxicity)

EC50 (Pseudokirchneriella subcapitata (algae)): 46,9 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Harmful

LL/EL/IL50 >10 <= 100 mg/l

Toxicity to bacteria (Acute

toxicity)

: IC50 (activated sludge): 255 mg/l

Exposure time: 16 h

Method: Other guideline method. Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic

toxicity)

ish (Chronic : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

: Remarks: Data not available

12.2 Persistence and degradability

Components:

Diisobutyl Ketone:

Biodegradability : Biodegradation: 88 %

Exposure time: 20 d

Method: Test(s) equivalent or similar to OECD Guideline 301D Remarks: Readily biodegradable., Oxidises rapidly by photo-

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

chemical reactions in air.

12.3 Bioaccumulative potential

Product:

Partition coefficient: noctanol/water : log Pow: 2,9 - 3,1

Components:

Diisobutyl Ketone :

Bioaccumulation : Remarks: Does not have the potential to bioaccumulate

significantly.

12.4 Mobility in soil

Components:

Diisobutyl Ketone :

Mobility : Remarks: Floats on 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

Components:

Diisobutyl Ketone:

Assessment : The substance does not fulfill all screening criteria for

persistence, bioaccumulation and toxicity and hence is not

considered to be PBT or vPvB.

12.6 Other adverse effects

Components:

Diisobutyl Ketone:

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.

	U	iisobutyl Ketone
Print Date 17.02.2025	Revision Date 10.02.2025	Version 3.0
Contaminated packaging	Local regulations may be more stringer national requirements and must be constituted in MARPOL - see International Convention Pollution from Ships (MARPOL 73/78) technical aspects at controlling pollutions: Drain container thoroughly. After draining, vent in a safe place awas Residues may cause an explosion has Do not, puncture, cut, or weld unclear Send to drum recoverer or metal reclaims. Dispose in accordance with prevailing to a recognized collector or contractor the collector or contractor should be as	ion for the Prevention of which provides ons from ships. ay from sparks and fire. zard. hed drums. himer. I regulations, preferably regulations, preferably recompetence of

SECTION 14: Transport information

14.1 UN number

ADR : 1157 **IMDG** : 1157 **IATA** : 1157

14.2 Proper shipping name

ADR : DIISOBUTYL KETONE **IMDG** : DIISOBUTYL KETONE

IATA : Diisobutyl ketone

14.3 Transport hazard class

ADR : 3 **IMDG** : 3 **IATA** : 3

14.4 Packing group

ADR

Packing group : 111 Classification Code : F1 Hazard Identification Number : 30 Labels : 3

IMDG

Packing group : 111 Labels : 3 **IATA** : 111 Packing group Labels : 3

14.5 Environmental hazards

Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0

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 : Y Ship type : 3

Product name : Diisobutyl ketone

Additional Information : 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 **IECSC** Listed **ENCS** Listed KECI : Listed **TSCA** Listed **TCSI** Listed **PICCS** Listed **NZIoC** 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

SAFFTY DATA SHFFT **Diisobutyl Ketone** Print Date 17.02.2025 Revision Date 10.02.2025 Version 3.0 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 fur Normuna 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 PNEC = Predicted No Effect Concentration

Dangerous Goods by Rail

REACH = Registration Evaluation And Authorisation Of

RID = Regulations Relating to International Carriage of

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Chemicals

	Dii	sobutyl Ketone
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	SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances Control A TWA = Time-Weighted Average vPvB = very Persistent and very Bioacci	
Further information		
Training advice	: Provide adequate information, instructio operators.	n and training for
Other information	: A vertical bar () in the left margin indica from the previous version.	tes 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. toxicologica Health Services, material suppliers' data IUCLID date base, EC 1272 regulation, 	l data from Shell a, 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.