DIETHYL KETONE FOR SYNTHESIS MSDS

CAS-No.: 96-22-0 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
EC-No.	: 202-490-3
CAS-No.	: 96-22-0
Product code	: 0104K
Chemical structure	· O
	H₃C、Ŭ ⊂CH₃

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H225 Category 2 Specific target organ H336 toxicity — Single exposure, Category 3, Narcosis Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of hazard classes and H-statements : see section 16

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xi; R37 R66 R67 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS02 GHS07
	GR502 GR507
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapours, dust, fume, gas.

2.3. Other hazards

No additional information available

SECTIO	SECTION 3: Composition/information on ingredients			
3.1.	Substances			
Name		: DIETHYL KETONE For Synthesis		
CAS-No	Э.	: 96-22-0		
EC-No.		: 202-490-3		

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
	· Handle empty containers with care because residual vanaurs are flammable
Additional hazards when processed Precautions for safe handling	 Handle empty containers with care because residual vapours are flammable. Keep away from sources of ignition - No smoking. Use only non-sparking tools. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.

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Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions	: Keep in fireproof place. Keep container tightly closed.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Hand protection : Protective gloves	
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state	: Liquid
Molecular mass	: 86.13 g/mol
Colour	: Colourless.
Odour	: aromatic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 101.5 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 7 °C
Auto-ignition temperature	: 450 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour.

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Vapour pressure	: 37.5 hPa at 20°C	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 0.81 g/cm³ at 20°C	
Solubility	: Water: 50 g/l at 20°C	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information No additional information available SECTION 10: Stability and reactivity		
10.1. Reactivity No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Open flame. Heat. Sparks.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition prod	ucts	
May release flammable gases.		
SECTION 11: Toxicological information		
11.1. Information on toxicological eff	ects	

11.1.	information	on	toxicological	enect	5
Acute to	xicity			:	Not classified

Skin corrosion/irritation	: Not classified
Additional information	: Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information 12.1. Toxicity No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN nu	mber	
UN-No. (ADR)		: 1156
UN-No. (IMDG)		: 1156
UN-No. (IATA)		: 1156
UN-No. (ADN)		: 1156
UN-No. (RID)		: 1156

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14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: DIETHYL KETONE
Proper Shipping Name (IMDG)	: DIETHYL KETONE
Proper Shipping Name (IATA)	: Diethyl ketone
Proper Shipping Name (ADN)	: DIETHYL KETONE
Proper Shipping Name (RID)	: DIETHYL KETONE
Transport document description (ADR)	: UN 1156 DIETHYL KETONE, 3, II, (D/E)
Transport document description (IMDG)	: UN 1156 DIETHYL KETONE, 3, II (13°C c.c.)
Transport document description (IATA)	: UN 1156 Diethyl ketone, 3, II
Transport document description (ADN)	: UN 1156 DIETHYL KETONE, 3, II
Transport document description (RID)	: UN 1156 DIETHYL KETONE, 3, II
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
	V
IMDG	
Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
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	3
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Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
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ADN	
Transport hazard class(es) (ADN)	: 3
	: 3
Danger labels (ADN)	. J
	V
Transport hazard class(es) (RID)	: 3

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Danger labels (RID) : 3 : 3

initia i doming group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: II
Packing group (ADN)	: 11
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	33 1156
Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: B

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Flash point (IMDG)	: 13°C c.c.	
Properties and observations (IMDG)	: Colourless, mobile liquid. Flashpoint: 13°C c.c. Explosive limits: 1.6% to Immiscible with water.	
MFAG-No	: 127	
- Air transport		
PCA Excepted quantities (IATA)	: E2	
PCA Limited quantities (IATA)	: Y341	
PCA limited quantity max net quantity (IATA)	: 1L	
PCA packing instructions (IATA)	: 353	
PCA max net quantity (IATA)	: 5L	
CAO packing instructions (IATA)	: 364	
CAO max net quantity (IATA)	: 60L	
ERG code (IATA)	: 3L	
- Inland waterway transport		
Classification code (ADN)	: F1	
Limited quantities (ADN)	: 1L	
Excepted quantities (ADN)	: E2	
Equipment required (ADN)	: PP, EX, A	
Ventilation (ADN)	: VE01	
Number of blue cones/lights (ADN)	: 1	
- Rail transport		
Classification code (RID)	: F1	
Limited quantities (RID)	: 1L	
Excepted quantities (RID)	: E2	
Packing instructions (RID)	: P001, IBC02, R001	
Mixed packing provisions (RID)	: MP19	
Portable tank and bulk container instructions (RID)	: T4	
Portable tank and bulk container special provisions (RID)	: TP1	
Tank codes for RID tanks (RID)	: LGBF	
Transport category (RID)	: 2	
Colis express (express parcels) (RID)	: CE7	
Hazard identification number (RID)	: 33	
14.7. Transport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code	

Not applicable

 SECTION 15: Regulatory information

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

 15.1.1.
 EU-Regulations

No REACH Annex XVII restrictions DIETHYL KETONE For Synthesis is not on the REACH Candidate List DIETHYL KETONE For Synthesis is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	not subject of the 12. BlmSchV (Hazardous Incident Ordinance)	
Netherlands		
SZW-lijst van kankerverwekkende stoffen	e substance is not listed	
SZW-lijst van mutagene stoffen	e substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	e substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	e substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	e substance is not listed	
Denmark		
Class for fire hazard	ass I-1	
Store unit	iter	
Classification remarks	<flam. 2="" liq.="">; Emergency management guidelines for the storag uids must be followed</flam.>	e of flammable
Recommendations Danish Regulation	ung people below the age of 18 years are not allowed to use the p	product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Flam. Liq. 2	Flammable liquids, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H225	Highly flammable liquid and vapour.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
R11	Highly flammable	
R37	Irritating to respiratory system	
R66	Repeated exposure may cause skin dryness or cracking	
R67	Vapours may cause drowsiness and dizziness	
F	Highly flammable	
Xi	Irritant	

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product