DECALIN FOR SYNTHESIS MSDS



CAS-No.: 91-17-8 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identificatio	n of the substance/mixture and of the company/undertaking
1.1. Product identifie	er
Product form	: Substance
CAS-No.	: 91-17-8
Product code Chemical structure	: 03152
Synonyms	: Decahydronaphthalene
1.2. Relevant identifi	ied uses of the substance or mixture and uses advised against
1.2.1. Relevant identifi	ied uses
Industrial/Professional use	
	For professional use only
1.2.2. Uses advised ag	ainst
No additional information a	-
1.2 Details of the out	unities of the confety date check
1.3. Details of the su LOBA CHEMIE PVT.LTD.	Ipplier of the safety data sheet
107 Wode House Road, J	
400005 Mumbai - INDIA T +91 22 6663 6663 - F +9	
info@lobachemie.com - w	ww.lobachemie.com
1.4. Emergency tele	phone number
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)
SECTION 2: Hazards ide	ntification
	f the substance or mixture
	to Regulation (EC) No. 1272/2008 [CLP]
Flammable liquids,	H226
Category 3 Acute toxicity (inhal.),	H331
Category 3	
Skin corrosion/irritation, Category 1B	H314
Hazardous to the aquatic environment — Chronic	H411
Hazard, Category 2	
Full text of H statements :	see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Xn; R20 C; R34 N; R51/53 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available



2.3. Other hazards

No additional information available

SECTIO	SECTION 3: Composition/information on ingredients		
3.1.	Substances		
Name		: DECALIN FOR SYNTHESIS	
CAS-No).	: 91-17-8	

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

3.2. Mixtures

Not applicable

Safety Data Sheet

SECTION 4: First aid measures

First-aid measures after inhalation : Remove parson to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. First-aid measures after skin contact :: Remove affected clothing and wash all exposed skin area with mild scap and water, followed by warm water rinse. Wash with pienty of water Immediately call a POISON CENTER/doctor. First-aid measures after eye contact :: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects : Causes severe skin burns and eye damage. Symptoms/effects : Causes severe skin burns and eye damage. Symptoms/effects : Causes severe skin burns and eye damage. 5.1. Extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray. Unsuitable extinguishing media Sutable extinguishing media : Do not use a heavy water stream. : 5.2. Special hazards arising from the substance or mixture : Spray water stream. 5.3. Advice for firefighters : Do not enter fire area without proper protective equipment, including respiratory protective. 5.4. Personal precautions, protective equipment and emergency procedures : 6.1. Personal precautions, protective equipment and emergency procedures : : 6.1.1. For non-amergency personal<			
POISON CENTER/doctor. First-aid measures after skin contact : Renove affected clothing and wash all exposed skin area with mild scap and water, followed by warm water rinse. Wash with plenty of water/Immediately call a POISON CENTER/doctor. First-aid measures after eye contact : Rinse cauliously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects : Causes severe skin burns and eye damage. Symptoms/effects : Causes severe skin burns and eye damage. Symptoms/effects after inhalation : Toxic if inhaled. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5E Infontifing measures 5.1. Extinguishing media : Carbon dioxide. Dry powder. Feam. Water spray. Unsuitable extinguishing media : Do not use a heavy water stream. 5.2. Special hazards arising from the substance or mixture Fire hazard : May form flammable/explosive vapour-air mixture. 5.3. Advice for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. ECTION 6: Accidental releases measures : Remove ignition sources. No open flames. No smoking. Use special care to avoid static electric charges. 6.1. Personal precautions, protective equipment and emergency procedures <tr< td=""><td>4.1. De</td><td>escription of first aid measures</td><td>S</td></tr<>	4.1. De	escription of first aid measures	S
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Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage	Toxic to aq	uatic life.	
6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent	6.3. Mo	ethods and material for contair	nment and cleaning up
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent	Methods fo	r cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent	6.4. Re	eference to other sections	
7.1. Precautions for safe handling Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent	No addition	al information available	
Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent	SECTION 7	7: Handling and storage	
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			Do not breathe vapours. Provide good ventilation in process area to prevent

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Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe stor	age, including any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical/ventilating/lighting 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 face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 138.55 g/mol
Colour	: Clear Colorless.
Odour	: slight odor resembling methanol.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -43 °C
Freezing point	: No data available
Boiling point	: 189 - 191 °C
Flash point	: 57.2 °C
Auto-ignition temperature	: 250 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable
Vapour pressure	: 2.3 mm Hg

: 4.76
: No data available
: 0.896 g/cm³
: Water: Insoluble in water
: 4.79
: No data available
: 0.007 - 0.049 vol %
ctions
products
rrosive vapours.
ion
l effects
: Inhalation: Toxic if inhaled.
: Causes severe skin burns and eye damage.
: Serious eye damage, category 1, implicit
: Not classified
: Not classified

Carcinogenicity : Not classified

Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water	: Toxic to aquatic life with long lasting effects.	

12.2. Persistence and degradability		
DECALIN FOR SYNTHESIS (91-17-8)		
Persistence and degradability	May cause long-term adverse effects in the environment.	

12.3. Bioaccumulative potential	
DECALIN FOR SYNTHESIS (91-17-8)	
Log Pow	4.79

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.

SECTION 14: Transport information

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

14.1. UN number	
UN-No. (ADR)	: 1147
UN-No. (IMDG)	: 1147
UN-No. (IATA)	: 1147
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: DECAHYDRONAPHTHALENE
Proper Shipping Name (IMDG)	: DECAHYDRONAPHTHALENE

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	. Deselvedrever http://www.
Proper Shipping Name (IATA)	: Decahydronaphthalene
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
Fransport document description (ADR)	: UN 1147 DECAHYDRONAPHTHALENE, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS
Fransport document description (IMDG)	: UN 1147 DECAHYDRONAPHTHALENE, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (52°C c.c.)
Fransport document description (IATA)	: UN 1147 Decahydronaphthalene, 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Fransport hazard class(es) (ADR)	: 3
	\mathbf{W}
MDG	
Fransport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
	. 0
ΑΤΑ	
Fransport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
	• •
Fransport hazard class(es) (ADN)	: Not regulated
RID	
Fransport hazard class(es) (RID)	: Not regulated
I4.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated

14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

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14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container	: T2
instructions (ADR)	
Portable tank and bulk container special	: TP1
provisions (ADR)	
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	30
	50
	30 1147
Tunnel restriction code (ADR)	: D/E
EAC code	: 3Y
Transport by and	
- Transport by sea	: 5 L
Limited quantities (IMDG)	. 5L : E1
Excepted quantities (IMDG)	
Packing instructions (IMDG)	: P001, LP01 : IBC03
IBC packing instructions (IMDG)	
Tank instructions (IMDG) Tank special provisions (IMDG)	: T2 : TP1
EmS-No. (Fire)	: F-F
EmS-No. (Spillage)	. I-⊑ : S-D
Stowage category (IMDG)	: 3-D : A
Flash point (IMDG)	: 52°C to 57°C c.c.
MFAG-No	: 130
	. 100
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity	: 10L
(IATA) PCA packing instructions (IATA)	. 355
PCA packing instructions (IATA) PCA max net quantity (IATA)	: 355 : 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
ERG code (IATA)	: 3L
	. 02
- Inland waterway transport	

Not regulated

- Rail transport

Not regulated

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	nnex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmenta	I regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions DECALIN FOR SYNTHESIS is not on the F DECALIN FOR SYNTHESIS is not on the F	
15.1.2. National regulations	
Germany	
Reference to AwSV	: Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV; ID No. 2197)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H411	Toxic to aquatic life with long lasting effects.
R20	Harmful by inhalation
R34	Causes burns
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
С	Corrosive
Ν	Dangerous for the environment
Xn	Harmful

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