Chemical Book India

MG		Chemi	cal Safety	Data Shee	t MSDS / S	DS		
				decan-1-ol SE 24-04-25 Revision	-			
Section 1 Section 9	Section 2 Section 10	Section 3 Section 11	Section 4 Section 12	Section 5 Section 13	Section 6 Section 14	Section 7 Section 15	Section 8 Section 16	
SECTION 1: Identification of the substance/mixture and of the company/undertaking Product identifier								
Product name:		Octadecan-1-ol 112-92-5						
CAS:		12-92-0						
Relevant id	entified uses o	f the substance	or mixture and	l uses advised a	against			
Relevant ide uses:	entified F	For R&D use only.	Not for medici	inal, household	or other use.			
Uses advised against:	d r	none						
Company Id	lentification							
Company:		Chemicalbook.in						
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SECTION 2: Hazards identification

Classification of the substance or mixture

Not classified.

GHS label elements, including precautionary statements Signal word No signal word Hazard statement(s) none Precautionary statement(s) Prevention none Response none Storage none Disposal none Other hazards which do not result in classification no data available

SECTION 3: Composition/information on ingredients

SubstanceChemical name:Octadecan-1-olCommon names and
synonyms:Octadecan-1-olCAS number:112-92-5EC number:204-017-6Concentration:100%

SECTION 4: First aid measures

Description of necessary first-aid measures

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

Following ingestion

Rinse mouth.

Most important symptoms/effects, acute and delayed

no data available

Indication of immediate medical attention and special treatment needed, if necessary

Basic Treatment: Establish a patent airway (oropharyngeal or nasopharyngeal airway, if needed). Suction if necessary. Encourage patient to take deep breaths. Watch for signs of respiratory insufficiency and assist ventilations if necessary. Administer oxygen by nonrebreather mask at 10 to 15 L/min. Monitor for pulmonary edema and treat if necessary . Monitor for shock and treat if necessary . Anticipate seizures and treat if necessary . For eye contamination, flush eyes immediately with water. Irrigate each eye continuously with 0.9% saline (NS) during transport . Do not use emetics. For ingestion, rinse mouth and administer 5 ml/kg up to 200 ml of water for dilution if the patient can swallow, has a strong gag reflex, and does not drool . Irritating materials

SECTION 5: Firefighting measures

Suitable extinguishing media

To fight fire use foam, carbon dioxide, dry chemical.

Specific hazards arising from the chemical

Combustible.

Special protective actions for fire-fighters

In case of fire in the surroundings, use appropriate extinguishing media.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Sweep spilled substance into covered containers. Carefully collect remainder. Then store and dispose of according to local regulations.

Environmental precautions

Sweep spilled substance into covered containers. Carefully collect remainder. Then store and dispose of according to local regulations.

Methods and materials for containment and cleaning up

Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place.

SECTION 7: Handling and storage

Precautions for safe handling

NO open flames. Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

Conditions for safe storage, including any incompatibilities

Separated from strong oxidants and strong acids.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational Exposure limit values

Component	Octadecan-1-c	Octadecan-1-ol				
CAS No.	112-92-5					
	Limit value - Eight hours		Limit value - Short term			
	ppm	_{mg/m} 3	ppm	_{mg/m} 3		
Germany (AGS)	20	224	20 (1)	224 (1)		
	Remarks	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
Germany (AGS)	(1) 15 minutes average value					

Biological limit values

no data available

Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety spectacles.

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties and safety characteristics

Physical state:	Solid. Paraffin like.
Colour:	Colourless.
Odour:	Faint

Melting point/freezing point:	57 °C. Atm. press.:Ca. 1 atm.
Boiling point or initial boiling point and boiling range:	335 °C. Atm. press.:Ca. 1 atm.
Flammability:	Combustible.
Lower and upper explosion limit/flammability limit:	no data available
Flash point:	195 °C. Atm. press.:Ca. 101.5 kPa.
Auto-ignition temperature:	Ca. 269 °C. Atm. press.:Ca. 1 atm.
Decomposition temperature:	no data available
pH:	no data available
Kinematic viscosity:	kinematic viscosity (in mm2/s) = 4.006. Temperature:100.0°C.
Solubility:	Soluble in alcohol, ether, benzene, acetone
Partition coefficient n- octanol/water:	log Pow = 7.4.
Vapour pressure:	Ca. 0.001 mBar. Temperature:Ca. 38 $^\circ\text{C}.$ Remarks:The temperature is measured to be 100 $^\circ\text{F}.$
Density and/or relative density:	0.91. Temperature:20 °C.
Relative vapour density:	9.3 (vs air)
Particle characteristics:	no data available

SECTION 10: Stability and reactivity

Reactivity Reacts with strong acids and strong oxidants.

Chemical stability no data available

Possibility of hazardous reactions

Flammable when exposed to heat or flame...

Conditions to avoid

no data available

Incompatible materials

Reacts with strong acids and strong oxidants.

Hazardous decomposition products

When heated to decomposition it emits acrid smoke and fumes.

SECTION 11: Toxicological information

Acute toxicity Oral: LD50 - rat (male/female) - > 2 000 mg/kg bw. Inhalation: no data available Dermal: LD50 - rabbit (male/female) - 8 000 mg/kg bw.

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological information

Toxicity

Toxicity to fish: LC50 - Oncorhynchus mykiss (previous name: Salmo gairdneri) - > 0.4 mg/L - 96 h. Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - 1 700 mg/L - 48 h. Toxicity to algae: EL50 - Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) - > 10 mg/L - 96 h. Toxicity to microorganisms: EC0 - Pseudomonas putida - > 10 000 mg/L - 30 min.

Persistence and degradability

AEROBIC: Using the Warburg test which employs activated sludge, 1-octadecanol gave a theoretical oxygen demand of 0.3, 0.5, and 0.3 percent in 6, 12, and 24 hours(1). However, using an acclimated mixed shake flask culture with incremental substrate addition of 1-octadecanol, biomass yield reached 54.5 percent after seven days(2). Given sufficient time in contact with adapted microbial species under conditions otherwise non-limiting, the complete disappearance of 1-octadecanol as identifiable molecular species will occur(2).

Bioaccumulative potential

An estimated BCF value of 2.8X10+4 was calculated for 1-octadecanol(SRC), using an experimental water solubility of 1.1X10-3 mg/L at 25 deg C(1) and a recommended regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is very high(SRC), provided the compound is not metabolized by the organism(SRC).

Mobility in soil

The Koc of 1-octadecanol is estimated as 1.8X10+5(SRC), using a water solubility of 1.1X10-3 mg/L at 25 deg C(1) and a regressionderived equation(2). According to a classification scheme(3), this estimated Koc value suggests that 1-octadecanol is immobile in soil(SRC).

Other adverse effects

no data available

SECTION 13: Disposal considerations

Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

Environmental hazards

ADR/RID: No IMDG: No IATA: No

Special precautions for user

no data available

Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question European Inventory of Existing Commercial Chemical Substances (EINECS) Listed. **EC Inventory** Listed. United States Toxic Substances Control Act (TSCA) Inventory Listed. China Catalog of Hazardous chemicals 2015 Not Listed. New Zealand Inventory of Chemicals (NZIoC) Listed. (PICCS) Listed. Vietnam National Chemical Inventory Listed. IECSC) Listed. Korea Existing Chemicals List (KECL) Listed.

SECTION 16: Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=O&request_locale=en

CAWEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

Other Information

Health effects of exposure to the substance have been investigated extensively but none have been found.

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any