**Chemical Book India** 

# Chemical Safety Data Sheet MSDS / SDS

# 2-ethylhexyl acetate SDS

Revision Date:2024-04-25 Revision Number:1

Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7	Section 8
Section 9	Section 10	Section 11	Section 12	Section 13	Section 14	Section 15	Section 16

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

Product identifier	
Product name:	2-ethylhexyl acetate
CAS:	103-09-3

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

 Relevant identified
 For R&D use only. Not for medicinal, household or other use.

 uses:
 uses advised

 uses:
 none

 against:

#### **Company Identification**

Company:	Chemicalbook.in
Address:	5 vasavi Layout Basaveswara Nilayam Pragathi Nagar Hyderabad, India -500090
Telephone:	+91 9550333722

# **SECTION 2: Hazards identification**

Classification of the substance or mixture

Skin irritation, Category 2

#### GHS label elements, including precautionary statements

Pictogram(s)

Signal word

Warning

#### Hazard statement(s)

H315 Causes skin irritation

#### Precautionary statement(s)

#### Prevention

P264 Wash ... thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

#### Response

P302+P352 IF ON SKIN: Wash with plenty of water/... P321 Specific treatment (see ... on this label). P332+P317 If skin irritation occurs: Get medical help. P362+P364 Take off contaminated clothing and wash it before reuse.

#### Storage

none

#### Disposal

none

#### Other hazards which do not result in classification

no data available

# SECTION 3: Composition/information on ingredients

# Substance

Chemical name: 2-ethylhexyl acetate

Common names and synonyms:	2-ethylhexyl acetate
CAS number:	103-09-3
EC number:	203-079-1
Concentration:	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

Rinse with pure water for at least 15 minutes. Consult a doctor.

#### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

#### Most important symptoms/effects, acute and delayed

Prolonged skin contact may cause irritation. (USCG, 1999)

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

# Absorption, Distribution and Excretion

Can be absorbed by skin of animals.

# **SECTION 5: Firefighting measures**

#### Suitable extinguishing media

Foam, carbon dioxide, dry chemical

#### Specific hazards arising from the chemical

Special Hazards of Combustion Products: Irritating vapors and toxic gases, such as carbon monoxide, may be formed when involved in fire. (USCG, 1999)

#### Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

# **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# **SECTION 7: Handling and storage**

#### Precautions for safe handling

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

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

# SECTION 8: Exposure controls/personal protection

**Control parameters** 

#### Occupational Exposure limit values

Component	2-ethylhexyl ace	2-ethylhexyl acetate				
CAS No.	103-09-3					
	Limit value - Eig	ht hours	Limit value - Short term			
	ppm	<sub>mg/m</sub> 3	ppm	<sub>mg/m</sub> 3		
Germany (AGS)	10 (1)	71 (1)	10 (1)(2)	71 (1)(2)		
Germany (DFG)	10 (1)	71 (1)	10 (1)(2)	71 (1)(2)		
Switzerland	10	71	10 (1)	71 (1)		
	Remarks					
Germany (AGS)	(1) Inhalable frac	(1) Inhalable fraction and vapour (2) 15 minutes average value				
Germany (DFG)	(1) Inhalable frac	(1) Inhalable fraction and vapour (2) 15 minutes reference period				
Switzerland	(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 tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### 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

Liquid.
WATER-WHITE.
no data available
-80 °C.
198.7 °C. Atm. press.:1 000 mBar.
no data available
LOWER 0.76%, UPPER 8.14% BY VOLUME
71 °C. Atm. press.:1 013.25 hPa.
268 °C. Atm. press.:1 013.25 hPa.
no data available
no data available
dynamic viscosity (in mPa s) = 1.3. Temperature:20°C.
VERY SLIGHTLY SOL IN WATER; MISCIBLE WITH ALCOHOL, OILS, & OTHER ORG SOLVENTS

log Pow = 4.2. Temperature:25 °C. Remarks:A pH-value is not reported.
0.31 hPa. Temperature:25 °C.
0.87. Temperature:20 °C.
5.93 (AIR= 1)
no data available

# SECTION 10: Stability and reactivity

#### Reactivity

no data available

#### Chemical stability

no data available

### Possibility of hazardous reactions

FIRE HAZARD: MODERATE, WHEN EXPOSED TO HEAT OR FLAME; CAN REACT WITH OXIDIZING MATERIALS.ETHYLHEXYL ACETATE is an ester. Esters react with acids to liberate heat along with alcohols and acids. Strong oxidizing acids may cause a vigorous reaction that is sufficiently exothermic to ignite the reaction products. Heat is also generated by the interaction of esters with caustic solutions. Flammable hydrogen is generated by mixing esters with alkali metals and hydrides. Contact with strong oxidizers may cause vigorous reaction (USCG, 1999).

#### Conditions to avoid

no data available

#### Incompatible materials

no data available

#### Hazardous decomposition products

When heated to decomposition it emits acrid smoke and irritating flames.

# SECTION 11: Toxicological information

#### Acute toxicity

Oral: LD50 - rat (female) - 5 140 mg/kg bw. Remarks: Value 48 h after administration. Inhalation: IHT - rat (male). Dermal: LD50 - guinea pig - > 17 400 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) - 8.27 mg/L - 96 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - 22.9 mg/L - 48 h.

Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - > 21.9 mg/L - 72 h.

Toxicity to microorganisms: EC20 - activated sludge, domestic - > 1 000 mg/L - 180 min. Remarks: Respiration rate.

#### Persistence and degradability

Although no biodegradation studies have been performed on 2-ethylhexyl acetate, studies on structurally similar compounds(1-3) have shown that, in general, alkyl acetates are biodegradable in both terrestrial and aquatic environments(SRC).

#### Bioaccumulative potential

An estimated BCF value of 400 was calculated for 2-ethylhexyl acetate(SRC), using an estimated log Kow of 3.74(1) and a recommended regression-derived equation(2). According to a classification scheme(3), this BCF value suggests that bioconcentration in aquatic organisms is high(SRC).

#### Mobility in soil

The Koc of 2-ethylhexyl acetate is estimated as approximately 2,500(SRC), using an estimated log Kow of 3.74(1) and a regressionderived equation(2,SRC). According to a recommended classification scheme(3), this estimated Koc value suggests that 2ethylhexyl acetate is expected to have slight mobility 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/

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