Multichem Specialities Pvt. Ltd.
1215, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 2243432121
E: multichem@multichemindia.com
www.multichemindia.com

ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

ETHYLCYCLOHEXANE

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

1.1 Product identifier:	
CAS Number:	1678-91-7
EC number:	216-835-0
1.2 SYNONYMS:	• 1-Ethylcyclohexane • Cyclohexane, 1-ethyl • Cyclohexylethane • ECH

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2) Aspiration hazard (Category 1) Specific target organ toxicity - single exposure, Central nervous system (Category 3), Short-term (acute) aquatic hazard (Category 1) Long-term (chronic) aquatic hazard (Category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H225:** Highly flammable liquid and vapor. **H304:** May be fatal if swallowed and enters airways.

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	H336: May cause drowsiness or dizziness. **H410:** Very toxic to aquatic life with long lasting effects.
Precautionary Statements:	**P210:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. **P233:** Keep container tightly closed. **P240:** Ground and bond container and receiving equipment. **P273:** Avoid release to the environment. **P301 + P310:** IF SWALLOWED: Immediately call a POISON CENTER/ doctor. **P331:** Do NOT induce vomiting. **P405:** Store locked up. **P501:** Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, dizziness, headache, and in high concentrations, may lead to central nervous system depression.
Ingestion:	can cause nausea, vomiting, abdominal pain, and dizziness, and may lead to central nervous system depression or other toxic effects in severe cases.
Skin Contact:	can cause mild irritation, redness, and dryness, and prolonged or repeated exposure may lead to more severe skin irritation.
Eye contact:	can cause irritation, redness, watering, and discomfort, and may result in more serious damage with prolonged exposure.
Chronic Exposure:	may lead to symptoms such as headaches, dizziness, fatigue, and possible liver or kidney damage, as

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	well as potential long-term effects on the central nervous system.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as respiratory disorders (e.g., asthma) or skin conditions (e.g., dermatitis), as well as exacerbate liver, kidney, or central nervous system issues.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 1678-91-7 ETHYLCYCLOHEXANE
Identification number(s):	EC number: 200-838-9

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion Risk of aspiration! Keep airways free. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.

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4.2 Most important symptoms and effects, both acute and delayed:	Acute symptoms include dizziness, headache, nausea, and respiratory irritation, while delayed effects may involve central nervous system depression, liver or kidney damage, and aggravated pre-existing conditions.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	No data available
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.

6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. well as potential long-term effects on the central nervous system.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Keep away fro moisture.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Colourless to light yellow
Odour:	Mild, gasoline like odor
pH-value:	Not applicable
Melting point/Melting range:	-112.6°C

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Boiling point/Boiling range:	137°C
Flammability (solid, gaseous):	Highly Flammable
Ignition temperature:	255°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	27°C
Danger of explosion:	None
Explosion limits: Lower:	1.1%
Explosion limits: Upper:	7.2%
Vapour pressure:	12 mmHg at 20°C
Density at 20 °C:	0.806 g/cm^3
Relative density:	0.806
Vapour density:	4.8
Evaporation rate:	No data available
Solubility in / Miscibility with-·water at 20 °C:	InSoluble
Partition coefficient:(n-octanol/water)	3.4
Viscosity:	0.53 cP at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	Stable under room temperatures
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can undergo hazardous reactions upon thermal decomposition.
10.4 Conditions to avoid	Heat, flames, sources of ignition.
10.5 Incompatible materials	Strong oxidizing agents, acids and alkalis
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 2.000 mg/kg **LD50** (Dermal, Rabbit): 2.000 mg/kg **LC50** (Inhalation Rat): no data available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	May cause effect to central nervous system through inhalation
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	Can cause severe respiratory damage.
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not Biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 0.746 mg/l (96hr) EC50(daphnia): 0.667 mg/l (48 hr) ErC50(algae): 0.633 mg/l (72 hr)
12.2 Persistence and degradability:	Not Biodegradable
12.3 Bioaccumulative potential:	Moderate bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Sand, soap with water, isopropyl alcohol, acetone.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1993
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	ETHYLCYCLOHEXANE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	3
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	Yes, harmful to aquatic life.
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substances as flammable substances.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their

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