SAFETY DATA SHEET



CYCLOHEXANONE

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

1.1 Product identifier:	
CAS Number:	108-94-1
EC number:	203-631-1
1.2 SYNONYMS:	KetohexamethyleneHexahydrophenone
	Cyclohexyl ketone

SECTION 2: Hazards identification:

2.1 Classification of the	Classification according to
substance or mixture:	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 3) Acute toxicity, Oral (Category 4) Acute toxicity, Inhalation (Category 4) Acute toxicity, Dermal (Category 4) Skin irritation (Category 2) Specific target organ toxicity - single exposure, Respiratory system (Category 3)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H226: Flammable liquid and vapor. H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled. H315: Causes skin irritation. H318: Causes serious eye damage.



	H335: May cause respiratory
	irritation.
Precautionary Statements:	price irritation. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338: IF IN EYES:
	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405: Store locked up.
	P501: Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	to all approved waste disposal piant.
Inhalation:	can cause respiratory irritation, dizziness, headache, and central nervous system depression.
Ingestion:	may cause nausea, vomiting, abdominal pain, drowsiness, and central nervous system depression.
Skin Contact:	can cause irritation, redness, and prolonged exposure may lead to dermatitis or absorption through the skin, potentially affecting the central nervous system.



Eye contact:	can cause severe irritation, redness, pain, and possible damage to the
	cornea.
Chronic Exposure:	may lead to persistent skin irritation, respiratory issues, and potential liver and kidney damage due to prolonged absorption and systemic effects.
Aggravation of pre-existing conditions:	may aggravate pre-existing respiratory conditions such as asthma, skin disorders like eczema, and liver or kidney diseases.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 108-94-1
	CYCLOHEXANONE
Identification number(s):	EC number: 203-631-1

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. If conscious, make victim drink two



	glasses at most immediately. Never
	give anything by mouth to an
	unconscious person. Do not induce
	vomiting. Consult a physician.
4.2 Most important symptoms	Acute exposure can cause
and effects, both acute and	respiratory irritation, dizziness,
delayed:	headache, nausea, vomiting, skin
EOID	and eye irritation, and central
	nervous system depression;
	delayed effects may include
	prolonged dermatitis and
	neurological symptoms with
	repeated or high-level exposure.
4.3 Indication of any immediate	Treat symptomatically.
medical attention and special	
treatment needed:	

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Alcohol-resistant
	foam.
5.2 Special hazards arising from	Carbon oxides.
the substance or mixture:	
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,	Use personal protective
protective equipment and	equipment.
emergency procedures:	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.
	Scoop absorbed substance into closing containers. Spill must not
	return in its original container. Clean contaminated surfaces with
	an excess of water. Wash clothing and equipment after handling.

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,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed
	Store in a cool, dry, well-ventilated
	area. Store away from incompatible
VOUD OUTMI	materials and foodstuff containers.
YIIIIK I; H F IVI I	Protect containers against physical
1 0 0 II O II L III I	damage and check regularly for
	leaks. Store in a dry and dark area.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	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	A system of local and general
design of technical facilities:	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:	Colorless
Odour:	Sweet, acetone-like
pH-value:	Neutral
Melting point/Melting range:	-47°C
Boiling point/Boiling range:	155.6°C
Flammability (solid, gaseous):	Flammable liquid
Ignition temperature:	455°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	41°C
Danger of explosion:	Yes
Explosion limits: Lower:	1.3
Explosion limits: Upper:	11.0
Vapour pressure:	9.5 hPa at 20 °C
Density at 20 °C:	0.947 g/cm ³
Relative density:	0.947
Vapour density:	3.3
Evaporation rate:	0.14
Solubility in / Miscibility with-	Slightly Soluble
·water at 20 °C:	
Partition coefficient:(n-	1.2
octanol/water)	
Viscosity:	2.02 mPa·s at 25 °C

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under
10011 011211	storage conditions.
10.3 Possibility of hazardous	May form explosive peroxides upon
reactions	prolonged exposure to air and
	light.
	can react violently with strong
	oxidizers, acids, and bases.



10.4 Conditions to avoid	Excessive heat and open flames
	Prolonged exposure to air and
	sunlight
10.5 Incompatible materials	Strong oxidizing agents, strong
	acids and bases, strong reducing
	agents.
10.6 Hazardous decomposition	Carbon monoxide, carbon dioxide.
products	11310

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 1.620 mg/kg LD50 (Dermal, Rabbit): 1.100 mg/kg LC50 (Inhalation Rat): 6.2 mg/l (4 hr)
Skin corrosion/Irritation:	Causes skin irritation
Serious eye damage/irritation:	Causes serious eye damage
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 respiratory irritation
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily biodegradable



SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 530 mg/l (96hr)
Aquatic toxicity:	EC50(daphnia): no data available
	ErC50(algae): no data available
12.2 Persistence and	Readily Biodegradable
degradability:	
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Water and detergent, detergent
	solution, sand.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	1915
IMDG, IATA:	
14.2 UN proper shipping name ·	CYCLOHEXANONE
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	3
ADR, ADN, IMDG, IATA :	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

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15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is classified in listed
regulations/legislation specific	substances as flammable liquid
for the substance or mixture	substances
Directive 2012/18/EU	



Named dangerous substances:	This substance is 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 independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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