Material Safety Data Sheet

Cyclo Hexanon (RXSOL-19-1285-025)

1. Product and Company Identifaction

Product Name	RXSOL-19-1285
Product Type	Cyclo Hexanon

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical Name	CAS Number	EC Number	Index number
Cyclohexanone	108-94-1	203-631-1	606-010-00-7

3. Hazards Identification

Hazard description:
Information concerning particular hazards for human and environment:
R 10 Flammable.
R 20 Harmful by inhalation.

4. First Aid Measures

General information	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
After skin contact	Generally the product does not irritate the skin.
After eye contact	Rinse opened eye for several minutes under running water.
After swallowing	If symptoms persist consult doctor.

5. Fire-fighting Measures

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet
Protective equipment: Mouth respiratory protective device.

6. Accidental Release Measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting: Dilute with plenty of water. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7. Handling and Storage

Handling:

Information for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

108-94-1 cyclohexanone

PEL (USA)	200 mg/m³, 50 ppm 100 mg/m³, 25 ppm Skin
REL (USA)	50 mg/m³, 20 ppm Skin Short-term value: 81.6 mg/m³, 20 ppm Long-term value: 40.8 mg/m³, 10 ppm
TLV (USA)	Skin Short-term value: 20 ppm
IOELV (EU)	Long-term value: 10 ppm
WEL (Great Britain)	Sk

Additional information: The lists valid during the making were used as basis.
Personal protective equipment:
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Tightly sealed goggles

9. Physical and chemical properties

General Information

Form	Fluid
Colour	Colourless

Odour	Characteristic
Change in condition	
Melting point/Melting range	ca. - 26°C
Boiling point/Boiling range	153 - 156°C
Flash point	43°C
Ignition temperature	420°C
Danger of explosion	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower	1.3 Vol %
Upper	9.4 Vol %
Vapour pressure at 20°C	5 hPa
Density at 20°C	0.95 g/cm³
Solubility in / Miscibility with water at 20°C	80 g/l

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions No dangerous reactions known.
Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Oral	LD50	1535 mg/kg (rat)
Dermal	LC50	948 mg/kg (rabbit)
Inhalative	LC50/4 h	8000 mg/l (rat)

Primary irritant effect:

on the skin	Irritant to skin and mucous membranes.
on the eye	No irritating effect.
Sensitization	No sensitizing effects known.

12. Ecological information

General notes: Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations

Product:
Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class	3 Flammable liquids.
Danger code (Kemler)	30
UN-Number	1915
Packaging group	III
Hazard label	3
Description of goods	1915 CYCLOHEXANONE

Maritime transport IMDG

IMDG Class	3
UN Number	1915
Label	3
Packaging group	III
EMS Number	F-E,S-D
Marine pollutant	No
Proper shipping name	CYCLOHEXANONE

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class	3
UN/ID Number	1915
Label	3
Packaging group	III
Proper shipping name	CYCLOHEXANONE

15. Regulatory information

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Code letter and hazard designation of product:
Xn Harmful
Risk phrases:
10 Flammable.
20 Harmful by inhalation.
Safety phrases:
2 Keep out of the reach of children.
25 Avoid contact with eyes.

16. Other information

This information is based on our present knowledge.However, this shall not constitute a guarantee for anys pecific product features and shall not establish a legally valid contractual relationship.

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