Material Safety Data Sheet

HCF REMOVER HD (RXSOL-20-2013-025)

1. Product and Company Identifaction

Product Name	:	RXSOL-20-2013-025
Product Type	:	HCF REMOVER HD-I

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

* Chemical characterization
* Description: Mixture of the substances listed below with harmless additions.
* Dangerous components:
CAS : 111-76-2 2-butoxyethanol Xn; R 20/21/22-36/38 5-10%
EINECS : 203-905-0
Alco Xi; R 38 7.0%
CAS : 112-34-5 2-(2-butoxyethoxy)ethanol Xi; R 36 2.5-5%
EINECS : 203-961-6

***See Section 16**

3. Hazards Identification

Chemical characterization

Description	Mixture of substances listed below with nonhazardous additions. Cleansing agent
Dangerous components	non-ionic surfactants Xn, Xi; R 22-41 10-25 % CAS: 111-76-2
EINECS	203-905-0 2-butoxyethanol Xn, Xi; R 20/21/22-36/38 2.5-10%

4. First Aid Measures

General Information	Immediately remove any clothing soiled by the product. 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; consult doctor in case of complaints.
After skin contact	Generally the product does not irritate the skin.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	Call for a doctor immediately

5. Fire-fighting Measures

Suitable extinguishing agents	CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment	No special measures required.

6. Accidental Release Measures

Person-related safety precautions	Wear protective clothing.
Measures for environmental protection	Dilute with plenty of water.
	Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	Dispose contaminated material as waste according to item 13.
	Ensure adequate ventilation.
	Dispose of the material collected according to regulations.

7. Handling and Storage

Handling	
Information for safe handling	Store in cool, dry place in tightly closed receptacles. Prevent formation of aerosols.
Information about fire- and explosion protection	No special measures required.
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	None.

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: 111-76-2 2-butoxyethanol
WEL Short-term value: 50 ppm
Long-term value: 25 ppm
• 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.
• Respiratory protection: Not required.
• Protection of hands: Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
• 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
• Eye protection: Safety glasses
• Body protection: Protective work clothing

9. Physical and chemical properties

• **General Information**
Form : Fluid
Colour : Yellowise / Clear
Odour : Characteristic
• **Change in condition**

Melting point/Melting range : Undetermined.
Boiling point/Boiling range : 171°C
- Ignition temperature : 240°C
- Self-igniting : Product is not selfigniting.
- Danger of explosion : Product does not present an explosion hazard.
- Explosion limits :

Lower : 1.1 Vol %
Upper : 10.6 Vol %

- Vapour pressure at 20°C : 23 hPa
- Density at 20°C : 1.01 g/cm³
- Solubility in / Miscibility with water : Fully miscible.
- pH-value at 20°C : > 7

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	Carbon monoxide and carbon dioxide.

11. Toxicological information

Acute toxicity	Primary irritant effect:
on the skin	No irritant effect.
on the eye	No irritating effect.
Sensitization	No sensitizing effects known.
Additional toxicological information	The product shows the following dangers according to the calculation method of the General EU
Classification Guidelines for Preparations as issued in the latest version	Harmful

12. Ecological information

General notes	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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.
Recommended cleansing agents	Water, if necessary together with cleansing agents.

14. Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID class : -
- Maritime transport IMDG:
- IMDG Class : -
- Marine pollutant : No
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class : -

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	22 Harmful if swallowed.
Safety phrases	23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 60 This material and its container must be disposed of as hazardous waste.
National regulations	
Waterhazard class	Water hazard class 2 (Self-assessment): hazardous for water.

16. Other information

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

• Relevant R-phrases

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
22 Harmful if swallowed.
36/38 Irritating to eyes and skin.
41 Risk of serious damage to eyes.

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