Material Safety Data Sheet

Turbine Kleen 81 RXSOL (RXSOL-81-8185-210)

1. Product and Company Identifaction

Product Name	Turbine Kleen 81 Rx
Product Type	**RXSOL-81-8185-025**

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

Proprietary mixture of non-ionic surfactant and emulsifier in deionised water solution.

Hazardous ingredient	CAS No.	EINECS No.	Conc. %	Symbols	R Phrases
Ethoxylated branched oxoalcohols	068439-46-3	polymer	20-40	Xn	R22, R41
2-(2-butoxyethoxy)ethanol	000112-34-5	203-961-6	1-15	Xi	R36

3. Hazards Identification

Classification of the mixture: This preparation is classified as dangerous according to Directive 1999/45/EC.
Harmful: Harmful if swallowed. Irritant: Risk of serious damage to eyes.
Label elements: Xn Harmful (contains ethoxylated C9-11 alcohols) Danger Symbols:
Risk phrases: R22. Harmful if swallowed.
R41. Risk of serious damage to eyes.
Safety phrases: S26. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39. Wear suitable protective clothing, gloves and eye / face protection.
Other hazards: none known.

4. First Aid Measures

Description of first aid measures:
Contact with skin: Remove contaminated clothing. Wash skin immediately with plenty of soap and water. If symptoms develop, get medical attention.
Contact with eyes: Wash immediately with eyewash solution or clean water, holding eyelids apart, for at least 10 minutes. Get immediate medical attention.

Ingestion: Rinse mouth with clean water. Get immediate medical attention.
Inhalation: Not expected to present a significant inhalation hazard under conditions of normal use.
Most important symptoms and effects, both acute and delayed: Risk of serious damage to eyes. May cause eye damage if untreated.
Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. Fire-fighting Measures

Extinguishing media: In case of fire use water, foam, carbon dioxide or dry agent.
Special hazards arising from the mixture: Product has no flash-point, but if heated sufficiently, it will produce flammable vapours.

Advice for firefighters: Use water spray to cool containers exposed to fire and to protect personnel. Firefighters should wear full protective gear including S.C.B.A. sets with full face shields.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental precautions: Dispose of in accordance with local regulations. The appropriate regulatory body must be alerted to spillages or uncontrolled discharges to watercourses
Methods and material for containment and cleaning up: Dike and contain spill. Do not allow spill to enter drains, sewers or waterways, ground, plants and vegetation. Recover free liquid if possible. Absorb spillage with inert material, floor absorbent, earth or sand and collect into appropriate containers.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin or eyes. Otherwise, no particular precautions are required in normal use. Practice normal industrial hygiene. Provide adequate ventilation. May present slip hazard if spilt.
Conditions for safe storage, including any incompatibilities: Keep containers closed to prevent contamination when not in use. Do not store near heat, open flames or strong oxidants. Store containers in an adequately ventilated area, protected against the sun (under a roof) and direct exposure to the weather (rain, storms, etc.). Do not store the product at temperatures below its freezing point.
Specific end uses: Industrial uses (SU3); Use in closed, continuous process with occasional controlled exposure (PROC2); Industrial use of substances in closed systems (ERC7); Washing and cleaning products, including solvent based products (PC35). No Exposure Scenario is available for this mixture.

8. Exposure controls and personal protection

Control parameters: Component substances with Workplace Exposure Limits

Component substance	LTEL, ppm	8hr.TWA mg/m3	STEL ppm	STEL mg/m3	Time	Authority
2-(2-butoxyethoxy)ethanol	10	67.5	15	101.2	15 mins.	UKHSE EH40/2005

2-(2-butoxyethoxy)ethanol (EC No. 203-961-6):
Derived No Effect Level (DNEL) -Industry Dermal Long Term 20 mg/kg/day
DNEL -Industry Inhalation Long Term 67.5 mg/m3
Exposure controls:
Wear suitable protective clothing, including eye/face protection and gloves.
Protective gloves must be used if there is a risk of direct contact or splash. Nitrile rubber offers best long-term protection, be aware that the liquid may penetrate the gloves. Frequent change is advisable.
Manufactured/tested in accordance with EN 374.
If ventilation is insufficient, adequate respiratory protection must be provided. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Where air-filtering respirators are appropriate, select a mask & filter combination suitable for aerosols and vapours such as Type-A or Type -2, ABEK-2 in accordance with EN 141. Check that mask fits tight and change filter regularly.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance	Clear, blue, low viscosity liquid at 20o C	
Odour	Characteristic, sweet.	
Change in physical state	Boiling point	approx. 100oC (212°F)
	Pour point	-1oC (30°F)
Flash point		>100oC (212°F) (Closed Cup)

Auto-ignition temperature		not determined
Flammability limits in air	LEL	not applicable
(% vol. in air)	UEL	not applicable
Vapour pressure at 20oC (68°F) (non-water fraction)		0.01 kPa
Solubility in water:		Complete
pH Value		7-8
Relative density at 15oC (59°F)		1.007 g/cm 3(8.41 lb/US Gal)
Viscosity (ASTM D 445) @ 27oC (80°F)		12 mm 2/s

Other information: The above data are typical values and do not constitute a specification.

10. Stability and reactivity

Reactivity: Reacts with oxidising agents.
Chemical stability: Stable in normal use and under recommended storage conditions.
Possibility of hazardous reactions: Other than 10.1, none known.
Conditions to avoid: Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight. Avoid freezing conditions.
Incompatible materials: Strong oxidising agents.
Hazardous decomposition products: Product stable under normal conditions of storage, handling and use.

11. Toxicological information

Information on toxicological effects:
Acute effects:
Inhalation: No significant signs or symptoms indicative of any health hazard are expected.
Ingestion: May cause nausea, vomiting and diarrhoea.
Skin contact: May cause drying of the skin and contact dermatitis.
Eye contact: May cause serious eye irritation.
Chronic effects: No experimental data are available on this preparation. Based on chronic toxicological information on its components it is unlikely to pose a carcinogenic, mutagenic or reproductive toxicity risk to humans if exposure is maintained at or below occupational limits.

12. Ecological information

Toxicity: The product has a low order of acute toxicity to aquatic species:
Acute toxicity of effluents and receiving waters to freshwater and marine organisms
according to EPA/600/4-90/027 "Methods for measuring" :
Cladoceran (Ceriodaphnia dubia) : 48 hours LC50 : 10 ppm
Fathead Minnows (Pimephales promelas) : 96 hours LC50 : 15 ppm
Persistence and degradability: The product is expected to degrade rapidly in the aquatic environment. Product tested according to OECD-302B "Inherent biodegradability, modified Zahn-Wellens Test", exposed to activated sludge of a municipal biological sewage waste water treatment plant under aerobic static conditions. Based on individual dissolved organic carbon (DOC) determinations TURBOTECT 950 reached a biodegradation of 99 % after 7 days, and at the end of this 28 day test, 88% of the organic carbon had been transformed into CO2. TURBOTECT 950 showed no significant toxic effects to the activated sludge, indicating no inhibition of the nitrifying micro-organisms.
Total organic carbon (TOC): 221 mg C /g TURBOTECT 950;
Chemical oxygen demand (COD): 747 mg O2/g TURBOTECT 950. TURBOTECT 950 is therefore classified as easily biodegradable under the strict terms and conditions of the OECD Guideline No. 302B. A copy of the relevant test report is available on request.
Bio-accumulative potential: The product has low potential for bioaccumulation.
Mobility in soil: no data available.
Results of PBT and vPvB assessment: Not Classified as PBT/vPvB by current EU criteria
Other adverse effects: The product is not a “VOC” (Volatile Organic Compound), the vapor pressure (calculated) for the non-water components

is 0.075 mm Hg / 20°C (0.01 kPa).

13. Disposal considerations

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local waste disposal authority.
Waste treatment methods: The product and effluent resulting from its use should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Empty containers may contain flammable or explosive vapours. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

UN Number: none
Not Dangerous Goods according to international transport regulations
Transport hazard class(es): none
Packaging group:
Environmental hazards: Not a Marine Pollutant
Special precautions for user: none
Transport in bulk according to Annex II of Marpol 73/78 and the IBC code: not available

15. Regulatory information

Safety, health and environmental regulations / legislation specific for the mixture: none applicable.
Chemical safety assessment: No Chemical Safety Assessment has been carried out for this mixture by the supplier.

16. Other information

This product has no established regulatory information. All regulatory information given is based on individual components of the mixture by component number. While this information and recommendations set forth herein are believed to be accurate and reliable, it is provided without warranty regarding its accuracy.

RX MARINE INTERNATIONAL MAKES NO WARRANTY WITH RESPECT HERE TO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Users must determine safe conditions for use and assume liability for any loss, injury, damage or expense resulting from use of this product.