Product Name:	**Surfactant Non Ionic fracturing RXSOL112**	**Part No / SKU:**	**RXSOL-81-2224-210**
Date of Issue:	September 11, 2026	**Document Type:**	Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	: Surfactant Non Ionic fracturing RXSOL112
Part Number	: RXSOL-81-2224-210

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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Website	www.rxmarine.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Name of Substance	Cas Number	EC No	Wt.%	Symbol
Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy	500-077-5	31726-34-8	10-20	Xi
Dicoco Dimethyl quaternary Ammonium chloride	263-087-6	61789-77-3	0.5-1.0	Xn
Propan-2-ol	200-661-7	67-63-0	0.1-0.25	Xn
Non Hazardous Compound	Proprietory	-----	40 - 50%	---

3. HAZARDS IDENTIFICATION

Signal Word	Warning
Hazard Statements	H315 - Causes skin irritation H319 - Causes serious eye irritation H412 - Harmful to aquatic life with long lasting effects
Precautionary statements - prevention	P273 - Avoid release to the environment P280 - Wear protective gloves and eye/face protection P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P391 - Collect spillage P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable P337 + P313 - If eye irritation persists: Get medical advice/attention P264 - Wash face, hands and any exposed skin thoroughly after handling P332 + P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse
Precautionary statements - response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner. Disposal: Dispose of contents/ container to an approved waste disposal plant.

4. FIRST AID MEASURES

Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get immediate medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation persists.
Inhalation:	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	If swallowed, call a poison control center or doctor immediately. Do NOT induce vomiting. If conscious, drink plenty of water.
General Advice	The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Protective Equipment	Use personal protective equipment.
Hazardous combustion products	Thermal decomposition can lead to release of irritating gases and vapors Carbon oxides (COx), Nitrogen oxides (NOx).
Advice for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.Containers close to fire should be removed immediately or cooled with water. Hazchem code ADG

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. Wear suitable personal protective equipment.Respiratory protective equipment.
Enviromental Precaution	Do not allow contact with soil, surface or ground water.If the products get into drains, inform the relevant authorities immediately.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with non combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

7. HANDLING AND STORAGE

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin or on clothing. Avoid spills and splashing during use.
Storage	Technical measures/precautions Ensure adequate ventilation. Keep airborne concentrations below exposure limits. Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place Avoid contact with: Strong oxidizing agents Storage class Chemical storage.
Advice on general occupational hygiene	Use good work and personal hygiene practices to avoid exposure. When using do not smoke, eat or drink. Wash hands before eating, drinking or smoking Remove contaminated clothing

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Information				
	ChemicalName	Arabic	Australia	Egypt
	Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	Not determined	Not determined	Not determined
	Dicocodimethyl quaternary ammonium chloride	Not determined	Not determined	Not determined
	Propan-2-ol	500 ppmSTEL 1230 mg/m3STEL 400ppmTWA 983mg/m3TWA	500 ppm STEL 1230 mg/m3 STEL 400 ppm TWA 983 mg/m3 TWA	500 ppmSTEL 1230 mg/m3 STEL 400 ppm TWA 983 mg/m3 TWA
	ChemicalName	India	Indonesian	Japan
	Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	Not determined	Not determined	Not determined
	Dicocodimethylquaternary ammonium chloride	Not determined	Not determined	Not determined
	Propan-2-ol	Not determined	400 ppm TWA 983 mg/m3 TWA 500 ppmSTEL 1230mg/m3STEL	200 ppm ACL
	ChemicalName	Kazakhstan	Kuwait	NewZealand
	Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	Not determined	Not determined	Not determined
	Dicocodimethylquaternary ammonium chloride	Notdetermined	Notdetermined	Notdetermined
	Propan-2-ol	10 mg/m3 MAC	1225 mg/m3 STEL 500 ppm STEL	500 ppm STEL 1230 mg/m3 STEL 400 ppm TWA 983 mg/m3 TWA
	ChemicalName	Malaysia	Philippines	Russia
	Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	Not determined	Not determined	Not determined
	Dicocodimethylquaternary ammonium chloride	Not determined	Not determined	Not determined

Propan-2-ol	400 ppm TWA 983 mg/m3 TWA	400 ppm TWA 980 mg/m3 TWA	50 mg/m3 STEL 10 mg/m3 TWA
ChemicalName	Thailand	Vietnam	Turkey
Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	Not determined	Not determined	Not determined
Dicocodimethylquaternary ammonium chloride	Not determined	Not determined	Not determined
Propan-2-ol	400 ppm TWA	Not determined	Not determined

Engineering Controls	Ensure adequate ventilation Mechanical ventilation or local exhaust ventilation is required.
Personal Protection	Eye protection : Wear eye protection/ face protection. Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Exposure Conrol	All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Gloves

Suit

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Apperance	Aqueous solution, Clear Yellow
Odour	Alcohol
Odor threshold	Not applicable
Flash Point	> 93.3 °C / > 199.4 °F PMCC
Boiling Point	~ 100 °C / 212 °F
Freezing Point	5 °C / 41 °F
pH	9 -11
Evaporation rate	No information available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Explosive properties	No data available
Vapor pressure	No data available
Vapor density	No information available
Specific gravity	0.99 - 1.03 g/cm3 @ 20 °C
Relative density	~ 1.0 @ 20°C.
Water solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient: octanol	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Dynamic viscosity	5-50 mPa s @ 16 °C
VOC (%)	1
Pour point	No information available

10. STABILITY AND REACTIVITY

Recativity	No specific reactivity hazards associated with this product.
Stability	Stable under normal conditions and recommended use.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Incompatible materials	Avoid to contact with oxidizing agents.
Hazardous Decomposition	Thermal decomposition can lead to release of irritating gases and vapors Carbon oxides (COx), Nitrogen oxides (NOx).
Condition to Avoid	None Known
Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

<table>
<tr><td>Acute toxicity</td><td></td></tr>
<tr><td>Route of Exposure</td><td>Inhalation, Eye contact, Skin contact</td></tr>
<tr><td>Eyes</td><td>Causes serious eye irritation.</td></tr>
<tr><td>Skin</td><td>Causes skin irritation.</td></tr>
<tr><td>Ingestion</td><td>Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.</td></tr>
<tr><td>Inhalation</td><td>Inhalation of vapors in high concentration may cause irritation of respiratory system.</td></tr>
<tr><td>Unknown acute toxicity</td><td>Not applicable.</td></tr>
<tr><td>Toxicology data for the components</td><td>
<table>
<tr><td>ChemicalName</td><td>LD50Oral</td><td>LD50Dermal</td><td>LC50Inhalation</td></tr>
<tr><td>Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-</td><td>LD50:1250mg/kg,rat,(based ondatafromsimilarsubstance)</td><td>LD50: > 2000 mg/kg, rat, (basedondatafromsimilar component)</td><td>Nodataavailable</td></tr>
<tr><td>Dicocodimethylquaternaryammoniumchloride</td><td>=960mg/kg(Rat)</td><td>LD50>2930mg/kg,rabbit</td><td>Nodataavailable</td></tr>
<tr><td>Propan-2-ol</td><td>=1870mg/kg(Rat)</td><td>=4059mg/kg(Rabbit)</td><td>=72600mg/m3(R</td></tr>
</table>
</td></tr>
<tr><td>Sensitization</td><td>This product does not contain any components suspected to be sensitizing.</td></tr>
<tr><td>Mutagenic effects</td><td>This product does not contain any known or suspected mutagens.</td></tr>
<tr><td>Carcinogenicity</td><td>This product does not contain any known or suspected carcinogens</td></tr>
<tr><td>Reproductive toxicity</td><td>This product does not contain any known or suspected reproductive hazards.</td></tr>
<tr><td>Specific target organ toxicity -Single exposure</td><td>Not classified</td></tr>
<tr><td>Specific target organ toxicity -Repeated exposure</td><td>Not classified</td></tr>
<tr><td>Aspiration hazard</td><td>Not applicable.</td></tr>
<tr><td>Other information</td><td>Key literature references and sources for data. See Section 16 for more information.</td></tr>
</table>

12. ECOLOGICAL INFORMATION

Toxicity	Harmful to aquatic life with long lasting effects
Toxicity to alge	See component information below.
Toxicity to daphnia and others	See component information below.
Toxicity to Fish	See component information below.

Toxicology data for the components

ChemicalName	Toxicitytofish	Toxicitytoalgae	Toxicitytodaphniaandother aquatic invertebrates
Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	LC5096h,Brachydaniorerio (zebrafish):>100mg/l(testbased on similar component)	EC50,72h:>100mg/kg(basedon similar substance)	EC50,48h,Daphniamagna(Water flea):>100mg/l(basedonsimilar product)
Dicocodimethylquaternary ammoniumchloride	Noinformationavailable	Noinformationavailable	EC50,48h,Daphnia:0.01mg/l
Propan-2-ol	> 1400000 µg/L LC50 Lepomis macrochirus 96 h = 11130 mg/L LC50Pimephalespromelas96h= 9640mg/LLC50Pimephales promelas 96 h	>1000mg/LEC50Desmodesmus subspicatus 96 h > 1000 mg/L EC50 Desmodesmus subspicatus 72 h	=13299mg/LEC50Daphnia magna 48 h

Persistence and degradability

Chemical Name	Persistence and degradability
Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	Readily biodegradable
Dicocodimethylquaternaryammonium chloride	No information available
Propan-2-ol	Readily biodegradable

Bioaccumulative potential

Chemical Name	Bioaccumulation
Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	Not likely to bioaccumulate
Dicocodimethylquaternaryammonium chloride	No information available
Propan-2-ol	No bioaccumulation potential

Mobility

Chemical Name	Mobility

Poly(oxy-1,2-ethanediyl), alphahexyl-omega-hydroxy-	Miscible in water
Dicocodimethylquaternaryammonium chloride	Soluble in water
Propan-2-ol	Soluble in water

Results of PBT and vPvB assessment	Not classified as PBT/vPvB by current EU criteria.

13. DISPOSAL CONSIDERATIONS

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility

14. TRANSPORT INFORMATION

UN Number	Not Regulated
Proper shipping name	The product is not covered by international regulation on the transport of dangerous goods
Transport hazard class(es)	
ADR/RID	Hazard class/division Not regulated
Subsidiary risk IMDG	Hazard class/division Not regulated
Subsidiary risk IATA	Hazard class/division Not regulated
Packing group	
Packing group	Not regulated
Environmental hazards	
Environmental hazards	No
Marine pollutant	No
ADR/RID	
Hazchem code	ADG 3Z
Tunnel Category	Not Reguted
IMDG	
EmS Code	Not Reguted
IATA	
Packing Instruction (Cargo)	Not Reguted
Maximum quantity	Not Reguted
Packing Instruction (Passenger)	Not Reguted
Maximum quantity	Not Reguted

15. REGULATORY INFORMATION

Regulations	Safety, health and environmental regulations/legislation specific for the substance or mixture The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)]. National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) 3rd Edition]. National Occupational Health and Safety Commission's Exposure Standards for Atmospheric Contaminants in the occupational Environment [NOHSC:1003 (1995)]. Safe Work Australia. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). ADG Code – Australian Dangerous Goods Code
International inventories	USA (TSCA) Complies Canada (DSL) Complies Philippines (PICCS) Does not comply Japan (ENCS) Complies China (IECSC) Complies Australia (AICS) Complies Korean (KECL) Complies New Zealand (NZIoC) Complies
Further information	FOR INDUSTRIAL USE.

16. OTHER INFORMATION AND DISCLAIMER

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