

Product Name: Hydrotech 3670 RX

Part No / SKU: RXSOL-81-8190-210

Date of Issue: September 09, 2026

Document Type: Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hydrotech 3670 RX
Part Number	RXSOL-81-8190-210

Company Details:....

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Hazardous components

Chemical Name	CAS-No.	EC-No.	Registration Number	Classification (REGULATION (EC) No 1272/2008)	Classification (67/548/EEC)	Concentration [%]
Quaternary ammonium compounds, benzylC12-16-alkyldimethyl, chlorides	68424-85-1	270-325-2		Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400	Xn-C-N; R22-R34-R50	>= 10 - 25
Ammonium Hydrogensulphite	10192-30-0	233-469-7	2119537321- 49	Eye Irrit. 2; H319 EUH031	Xi; R31-R36	>= 10 - 20
(2-methoxy methyl ethoxy)p ropanol	34590-94-8	252-104-2	01- 2119450011- 60			>= 1 - 5
Dipropylene Glycol Monomethyl Ether	34590-94-8	252-104-2				>= 1 - 10
Ethanediol	107-21-1	203-473-3				>= 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)	
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Classification (67/548/EEC, 1999/45/EC)	
Corrosive	R34: Causes burns. R31: Contact with acids liberates toxic gas.

Label elements

Signal Word	Warning
Hazard Statements	H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life.
Precautionary Statements	Prevention: P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician.
Hazardous components which must be listed on the label	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Additional Labelling	EUH031 Contact with acids liberates toxic gas.
Other hazards	Not Classified as PBT/vPvB by current EU criteria.

4. FIRST AID MEASURES

Description of first aid measures

If inhaled	Remove to fresh air. Oxygen or artificial respiration if needed. If symptoms persist, call a physician
In case of skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Chemical burns must be treated promptly by a physician. Take victim immediately to hospital.
In case of eye contact	Immediately flush eyes for at least 15 minutes. Get medical attention. Take victim immediately to hospital. Continue rinsing eyes during transport to hospital. Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. If swallowed, call a poison control centre or doctor immediately. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Risks	If you feel unwell, seek medical advice (show the label where possible).
Treatment	No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical Aqueous film forming foam (AFFF).
Specific hazards during firefighting	Burning produces noxious and toxic fumes.
Hazardous decomposition products	In case of fire hazardous decomposition products may be produced such as: Carbon oxides. nitrogen oxides (NO _x). sulphur oxides.
Advice for firefighters	
Special protective equipment for firefighters	Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.
Further information	In the event of fire and/or explosion do not breathe fumes. Stay upwind/ keep distance from source. Use water spray to cool unopened containers. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Avoid inhalation, ingestion and contact with skin and eyes.
Environmental precautions	Do not allow contact with soil, surface or ground water.
Methods for 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). Pick up and transfer to properly labelled containers. Do not flush into surface water or sanitary sewer system.
Reference to other sections	For personal protection see section 8. See section 13 for waste disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Avoid inhalation, ingestion and contact with skin and eyes. Use only with adequate ventilation/personal protection. In case of insufficient ventilation, wear suitable respiratory equipment. Eliminate all ignition sources. Ensure that eyewash stations and safety showers are close to the workstation location. Smoking, eating and drinking should be prohibited in the application area.
Requirements for storage areas and containers	Keep container tightly closed in a dry and well-ventilated place. Away from acids. Away from alkalis. Away from oxidizing materials.
Specific end uses	The identified uses of this product are detailed in section 1.2

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis
(2- methoxymethylethox y)propanol	34590-94- 8	TWA	50 ppm 308 mg/m3	2000-06-16	2000/39/EC

Further information	skin: Identifies the possibility of significant uptake through the skin Indicative
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		TWA	50 ppm 308 mg/m3	2005-04-06	GB EH40
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Further information	Sk: Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used
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DNEL	
Ammonium hydrogensulphite	End Use: Workers Exposure routes: Inhalation. Potential health effects: Long-term exposure, Systemic effects Value: 234 mg/m³ End Use: Consumers Exposure routes: Inhalation. Potential health effects: Long-term exposure, Systemic effects Value: 69 mg/m³ End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term exposure, Systemic effects Value: 9 mg/kg bw/day
(2-methoxymethylethoxy)propanol	End Use: Workers Exposure routes: Inhalation. Potential health effects: Long-term exposure, Systemic effects Value: 310 mg/m³ End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term exposure, Systemic effects Value: 65 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation. Potential health effects: Long-term exposure, Systemic effects Value: 37.2 mg/m³ End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term exposure, Systemic effects Value: 15 mg/kg bw/day End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term exposure, Systemic effects Value: 1.67 mg/kg bw/day
PNEC	
Ammonium hydrogensulphite	Fresh water Value: 1.04 mg/l Marine water Value: 0.1 mg/l Sewage Treatment Plant Value: 78.6 mg/l
(2-methoxymethylethoxy)propanol	Fresh water Value: 19 mg/l Marine water Value: 1.9 mg/l Intermittent use/release Value: 190 mg/l Sewage Treatment Plant Value: 4168 mg/l Fresh water sediment Value: 70.2 mg/kg Marine sediment Value: 7.02 mg/kg Soil Value: 2.74 mg/kg

Exposure controls

Engineering measures

Personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator with filter for organic vapour
Hand protection	Wear protective gloves. Rubber gloves. Neoprene gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Breakthrough time is not determined for the product. Change gloves often! Use a high fat protective cream after cleaning skin.
Eye protection	Tightly fitting safety goggles. Face-shield. Do not wear contact lenses.
Skin and body protection	Chemical resistant apron. impervious clothing
Hygiene measures	Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday. Wash hands before eating, drinking, or smoking. Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	
General advice	Do not allow contact with soil, surface or ground water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Colorless to light yellow.
Odor	Pungent
Odour Threshold	Not determined
pH	4 - 6
Melting point	Not determined
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not determined
Lower explosion limit	Not determined
Upper explosion limit	Not determined
Vapour pressure	Not determined
Relative vapour density	No data available
Relative density	>1.1, 20 °C
Solubility (qualitative)	Completely miscible, Water
Partition coefficient: octanol/water	Not determined
Autoignition temperature	Not determined
Thermal decomposition	Not determined
Viscosity, dynamic	20 mPa.s, 20 °C
Viscosity, kinematic	10 mm ² /s, 40 °C
Explosive properties	Not applicable
Oxidizing properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	
Hazardous reactions	Not relevant
Conditions to avoid	Oxidizing agents Heat, flames and sparks.
Incompatible materials	
Materials to avoid	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products	In case of fire hazardous decomposition products may be produced such as: Carbon oxides. nitrogen oxides (NOx). sulphur oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Product	
Acute oral toxicity	Acute toxicity estimate: 2,130 mg/kg, Calculation method
Further information	No data available
Components	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides :	
Acute oral toxicity	LD50: 426 mg/kg, rat LD50: 919 mg/kg, mouse
Ammonium hydrogensulphite	
Acute oral toxicity	LD50: 3,000 mg/kg, rat
(2-methoxymethylethoxy)propanol	
Acute oral toxicity	LD50: 5,214 mg/kg, rabbit LD50: 5,350 mg/kg, rat

12. ECOLOGICAL INFORMATION

Toxicity	
Product	
Toxicity to fish	LC50: 3.09 mg/l, 96 h, Flatfish, flounder, Marine water, OSPARCOM 1995, GLP: yes, Test substance: Component
Toxicity to daphnia and other aquatic invertebrates.	EC50: 5.66 mg/l, 48 h, Acartia tonsa, Marine water, ISO/TC147/SC5/WG2(1990), GLP: yes
Toxicity to algae	EC50: 0.18 mg/l, 72 h, Skeletonema costatum, Marine water, ISO 10253, GLP: yes
Persistence and degradability	
Product	
Biodegradability	No data available
Physico-chemical removability	No data available
Bioaccumulative potential	
Product	
Bioaccumulation	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
Other adverse effects	
Product	
Additional ecological information	Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste treatment Method	
Product	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. TRANSPORT INFORMATION

UN number	
ADR	Not Regulated
IMDG	Not Regulated
IATA	Not Reguated
UN proper shipping name	
ADR	Hydrotech 3670 RX Oxygen Scavenger Biocide and Corrosion Inhibitor
IMDG	Hydrotech 3670 RX Oxygen Scavenger Biocide and Corrosion Inhibitor
IATA	Hydrotech 3670 RX Oxygen Scavenger Biocide and Corrosion Inhibitor
Transport hazard class	
ADR	8
IMDG	8
IATA	8
Packaging group	
ADR	
Packaging group	III
Classification Code	C3
Hazard identification No	80
Labels	8
Tunnel restriction code	(E), full load, tank-container
IMDG	
Packaging group	III
Labels	8
EmS Number	F-A, S-B
IATA	
Packing instruction (cargo aircraft)	855
Packaging group	III
Labels	8
Environmental hazards	
ADR	
Environmentally hazardous	ND
IMDG	
Marine pollutant	ND
IATA	
Environmentally hazardous	Yes
Special precautions for user	Not relevant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This material may require an IBC code if carried according to the "International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. Please contact Champion Technologies Product Stewardship Team if you need further information.
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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Notification status	
US.TSCA	On TSCA Inventory
DSL	All components of this product are on the Canadian DSL list.
AICS	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
Chemical Safety Assessment	No chemical safety assessment has been carried out.

16. OTHER INFORMATION AND DISCLAIMER

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rxsol Chemo Pharma International / Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY : The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.
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