

1. Product and Company Identification

www.rxmarine.com

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

Company Details:....

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400
Fax +91 22 27612100 ::AOH :0091 9821214367
Email mail@rxmarine.com
Website www.rxmraine.com

2. Composition / Information on ingredients

www.rxmarine.com

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, benzyl C12-16-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 (2-methoxy methyl ethoxy)p ropanol	10192-30-0	233-469-7	2119537321- 49	Eye Irrit. 2; H319 EUH031	Xi; R31-R36	>= 10 - < 20
Dipropylene Glycol Monomethyl Ether	34590-94-8	252-104-2	01- 2119450011- 60			>= 1 - < 5
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

www.rxmarine.com

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1B

Acute aquatic toxicity, Category 1

Classification (67/548/EEC, 1999/45/EC)

Corrosive

H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

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

www.rxmarine.com

Description of first aid measures

If inhaled

Remove to fresh air.

Oxygen or artificial respiration if needed.

In case of skin contact

If symptoms persist, call a physician

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.

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.

If you feel unwell, seek medical advice (show the label where possible).

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!

If swallowed

Risks

Treatment

5. Fire-fighting Measures

www.rxmarine.com

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Alcohol-resistant foam

Carbon dioxide (CO₂)

Dry chemical

Aqueous film forming foam (AFFF).

Burning produces noxious and toxic fumes.

In case of fire hazardous decomposition products may be produced such as:

Carbon oxides.

nitrogen oxides (NO_x).

sulphur oxides.

Specific hazards during firefighting

Hazardous decomposition products

Advice for firefighters

Special protective equipment for firefighters

Use personal protective equipment.

In the event of fire, wear self-contained breathing apparatus.

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.

Further information

6. Accidental Release Measures

www.rxmarine.com

Personal precautions, protective equipment and emergency procedures

Personal precautions

Refer to protective measures listed in sections 7 and 8.

Environmental precautions
Methods for cleaning up

Reference to other sections

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.

Do not allow contact with soil, surface or ground water.

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.

For personal protection see section 8.

See section 13 for waste disposal information.

7. Handling and Storage

www.rxmarine.com

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.

Keep container tightly closed in a dry and well-ventilated place.

Requirements for storage areas and containers

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 and personal protection

www.rxmarine.com

Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis
(2-methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm	2000-06-16	2000/39/EC
Further information			308 mg/m ³		
			skin: Identifies the possibility of significant uptake through the skin		
			Indicative		
		TWA	50 ppm	2005-04-06	GB EH40
			308 mg/m ³		

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

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)propa

End Use: Workers

nol

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)propa

Fresh water

nol

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.
Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice.
General advice	Do not allow contact with soil, surface or ground water.

9. Physical and chemical properties

www.rxmarine.com

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: noctanol/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

www.rxmarine.com

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.
Hazardous decomposition products	Strong oxidizing agents. In case of fire hazardous decomposition products may be produced such as: Carbon oxides. nitrogen oxides (NO _x). sulphur oxides.

11. Toxicological information

www.rxmarine.com

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

www.rxmarine.com

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

www.rxmarine.com

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

www.rxmarine.com

UN number

ADR

Not Regulated

IMDG

Not Regulated

IATA

Not Regulated

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.

15. Regulatory information

www.rxmarine.com

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

www.rxmarine.com

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.