

1. Product and Company Identification

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Product Name Hydrotech 3670 RX
Part Number RXSOL-44-8190-025

Company Details:....

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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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	10192-30-0	233-469-7	2119537321- 49	Eye Irrit. 2; H319 EUH031	Xi; R31-R36	>= 10 - < 20
(2-methoxy methylethoxy)propanol	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

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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

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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.

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

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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

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Personal precautions, protective equipment and emergency procedures

Personal precautions

Refer to protective measures listed in sections 7 and 8.

Ensure adequate ventilation.

Environmental precautions
Methods for cleaning up

Reference to other sections

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

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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.

Requirements for storage areas and containers

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.
Away from acids.
Away from alkalis.

Specific end uses

Away from oxidizing materials.
The identified uses of this product are detailed in section 1.2

8. Exposure controls and personal protection

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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		

DNEL

Ammonium hydrogensulphite

(2-methoxymethylethoxy)propa
nol

PNEC

toxicity. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used

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

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

Ammonium hydrogensulphite	Fresh water
	Value: 1.04 mg/l
	Marine water
	Value: 0.1 mg/l
	Sewage Treatment Plant
	Value: 78.6 mg/l
	Fresh water
	Value: 19 mg/l
	Marine water
	Value: 1.9 mg/l
(2-methoxymethylethoxy)propa nol	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.

Skin and body protection
Hygiene measures

Face-shield.

Do not wear contact lenses.

Chemical resistant apron. impervious clothing

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

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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

1.045 - 1.075, 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 mm²/s, 40 °C

Explosive properties

Not applicable

Oxidizing properties

Not determined

10. Stability and reactivity

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Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Not relevant

Hazardous reactions

Oxidizing agents

Conditions to avoid

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 (NOx).

sulphur oxides.

11. Toxicological information

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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

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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

EC50: 5.66 mg/l, 48 h, Acartia tonsa, Marine water,

aquatic invertebrates.

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

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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

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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.

15. Regulatory information

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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

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Other Information

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