

1. Product and Company Identification

www.rxmarine.com

Product Name: Univrsal Indicator Solution
Part Number: RXSOL-60-6199-500

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.rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Ethanol		
CAS-No. 64-17-5	Flam. Liq. 2; Eye Irrit. 2; H225, H319	>= 60 - < 70 %
EC-No 200-578-6		
Index-No. 603-002-00-5		
Methyl Orange		
CAS-No. 547-58-0	Acute Tox. 3; H301	< 0.1 %
EC-No. 208-925-3		
Methyl Red		
CAS-No. 493-52-7		< 0.1 %
EC-No. 207-776-1		
Bromothymol blue		
CAS-No. 76-59-5		< 0.1 %
EC-No. 200-971-2		
Phenolphthalein		
CAS-No. 77-09-8	Muta. 2; Carc. 1B; Repr. 2;	< 0.1 %
EC-No. 201-004-7	H341, H350, H361f	
Index-No. 604-076-00-1	Concentration limits: >= 1 %:	
	Carc. 1B, H350;	
Water		
CAS-No. 7732-18-5		< 33 %

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 according to Regulation (EC) No 1272/2008

Flammable liquid (Category 3), H226

Eye irritation (Category 2A), H319

Respiratory effects (Category 3), H335

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

Label elements

Signal Word

Warning

Hazard Statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary Statements

P210 Keep away from heat, sparks and open flame. No smoking.

P233 Keep container tightly closed.

P240 Ground container and receiving equipment.

P241 Use explosion-proof equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe fumes, mist, vapors, or spray.

P264 Wash arms, hands and face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with 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.

P321 Specific treatment (Wash areas of contact with water immediately).

P337+P313 If eye irritation persists: Get medical attention.

P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents in accordance with local, state, federal and international regulations.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

www.rxmarine.com

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact

Rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

Immediately make victim drink water (two glasses at most). Consult a physician.

Most important symptoms and effects, both acute and delayed

Irritant effects, respiratory paralysis, Dermatitis, Dizziness, narcosis, inebriation, euphoria, Nausea, Vomiting

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting Measures

www.rxmarine.com

Extinguishing media

Suitable extinguishing media

Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters

Special protective equipment for firefighters

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

Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

www.rxmarine.com

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:

Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an

Advice for emergency responders	expert.
Environmental precautions	Protective equipment see section 8.
Methods and materials for containment and cleaning up	Do not let product enter drains. Risk of explosion.
Reference to other sections	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

7. Handling and Storage

www.rxmarine.com

Precautions for safe handling

Advice on safe handling	Observe label precautions.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Hygiene measures	Change contaminated clothing. Wash hands after working with substance.
Conditions for safe storage, including any incompatibilities	
Storage conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.
	Recommended storage temperature see product label.
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

www.rxmarine.com

Control parameters

Ingredients with workplace control parameters

Exposure controls

Personal protective equipment

Eye/face protection

Skin protection

Body Protection

Respiratory protection

Control of environmental exposure

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If the full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

www.rxmarine.com

Appearance	Form: liquid
Odor	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower	No data available
flammability or	
explosive limits	
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	No data available

10. Stability and reactivity

www.rxmarine.com

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Sodium oxides
	Other decomposition products - No data available
	In the event of fire: see section 5

11. Toxicological information

www.rxmarine.com

Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available

Aspiration hazard	No data available
Additional Information	No data available

12. Ecological information

www.rxmarine.com

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	No data available .

13. Disposal considerations

www.rxmarine.com

Waste treatment Method	
Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.
Contaminated packaging	Dispose of as unused product.

14. Transport information

www.rxmarine.com

UN number	ADR/RID:1170 IMDG:1170 IATA: 1170
UN proper shipping name	ADR/RID: ETHANOL SOLUTION
	IMDG: ETHANOL SOLUTION
	IATA: ETHANOL SOLUTION
Transport hazard class(es)	ADR/RID: 3 IMDG: 3 IATA:3
Packaging group	ADR/RID: III IMDG: III IATA:III
Environmental hazards	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	No data available

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.
Chemical Safety Assessment	For this product a chemical safety assessment was not 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 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 Rx Marine International has been advised of the possibility of such damages.