



HYTREAT 2200

Bio-dispersant and surfactant for recirculating cooling water system

SAFETY DATA SHEET

1. IDENTIFICATION

Last Revised Date : 1.11.2024

Next revised Date : 1.11.2029

PRODUCT NAME: HYTREAT 2200

SUPPLIER: Hydrocure Pte Ltd
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition	Cas No.	Contents
Glutaraldehyde	111-30-8	10 to 12%
n-Alkyl dimethyl benzyl ammonium chloride	139-08-2	1 to 2%
Non hazardous ingredients		to 100%

3. HEALTH HAZARD DATA

2.1 Classification of The Hazardous Chemical

- Acute toxicity – Oral/Inhalation (Category 3)
- Skin corrosion (Category 1B)
- Hazardous to the aquatic environment - acute hazard (Category 1)

2.2 Label Element

Signal word : Danger

Hazard Pictogram(s) :



Hazard Statement : H301 + H331 Toxic if swallowed and if inhaled.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.

Precautionary Statement : P260 Do not breathe vapours
P261 Avoid breathing dust/vapour.
P264 Wash eye, skin and mouth thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.

P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to prescribed premises/facilities as according to requirements outlined by local environmental protection authority.

2.3 Other Hazards

Repeated or prolonged exposure may cause skin irritation and dermatitis. Repeated or prolonged contact may cause skin sensitization. Repeated or prolonged inhalation exposure may cause asthmatic reactions.

3. INHALATION

Vapor is irritating to the respiratory tract, causing stinging sensations in the nose and throat, discharge from the nose, possible bleeding from the nose coughing, chest discomfort and tightness, difficulty with breathing, and headache.

SWALLOWING

Moderately toxic. May cause moderate to marked irritation or chemical burns of the mouth, throat esophagus, and stomach, with discomfort or pain in the mouth, throat, chest, esophagus, and abdomen, nausea, vomiting, diarrhea, dizziness, faintness, drowsiness, weakness, thirst, circulatory collapse, and coma.

SKIN ABSORPTION

Prolonged or widespread contact may result in the absorption of potentially harmful amounts of material.

SKIN CONTACT

Brief contact will cause itching with mild to moderate local redness and possibly swelling. Prolonged contact may result in pain, severe redness and swelling, with ulceration, tissue destruction, and possibly bleeding into the inflamed area.

EYE CONTACT

Liquid will cause a severe and persistent conjunctivitis, seen as excess redness and marked swelling of the conjunctiva with profuse discharge. Severe corneal injury may develop, which could permanently impair vision if prompt first aid and medical treatment are not obtained. Vapor will cause stinging sensations in the eye with excess tear production, blinking, and possibly a slight excess redness of the conjunctiva.

4. FIRST-AID MEASURES

INHALATION

Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.

SWALLOWING

DO NOT INDUCE VOMITING. Do not give anything to drink. Obtain medical attention without delay.

SKIN

Immediately remove contaminated clothing and shoes. Wash skin with soap and water. Obtain medical attention. Wash clothing before reuse. Discard contaminated leather articles such as shoes and belt.

EYES

Immediately flush eyes with water and continue washing for at least 15 minute. Obtain medical attention without delay, preferably from an ophthalmologist.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

This material is not flammable. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES

Use water to keep fire exposed containers cool and disperse vapours.

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEANUP METHODS

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not let washing down water

contaminate ponds or waterways. Dispose of in accordance with Local Authority Regulations.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Keep in cool, dry, ventilated storage and closed containers. Avoid extremes of temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION

General room ventilation is expected to be satisfactory where this product is stored and handled in closed equipment.

RESPIRATORY PROTECTION

In case of insufficient ventilation: wear suitable respiratory equipment.

HAND PROTECTION

Protective Gloves made of rubber, Nitrile (NBR), Butyl or polyethylene.

EYE PROTECTION

Avoid contact with eyes.

SKIN PROTECTION

Wear suitable protection clothing. Avoid prolonged or repeated contact with skin.

OTHER PROTECTIVE EQUIPMENT

Chemical apron, eye bath, safety shower, rubber boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear or slight yellowish liquid.

ODOUR: Characteristic Aldehyde.

SOLUBILITY DESCRIPTION: Soluble in water.

SPECIFIC GRAVITY AT 25C: 1.03 +/- 0.02

PH VALUE, CONC: 3.5 to 5.5

10. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID: Avoid excessive heat for prolonged periods of time.

11. TOXICOLOGICAL INFORMATION

HEALTH WARNINGS:

Causes irreversible eye damage.
Causes skin burns.
May be fatal if swallowing or absorbed through the skin.
Harmful if inhaled.
May cause skin sensitization.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Do not release into surface waters.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with Local Authority Requirements.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

RISK PHRASES: Not classified

SAFETY PHRASES: S-36/37/39
 S-45

Labelling Irritant

16. OTHER INFORMATION

Please consult Hydrocure Pte Ltd if further information is needed.

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