Material Safety Data Sheet

Air Cooler Alkaline Cleaner (RXSOL-16-1040-025)

1. Product and Company Identifaction

Product Name	:	RXSOL-16-1040-025
Product Type	:	AIR COOLER CHEMICAL CLEANER , ALKALINE

Company Details:

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Visakhapatnam, Fujairah, Muscat Oman, Canada

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2. Composition / informationon ingredients

Name of Substance	Cas Number
Proprietory Silicate Compound	6834-92-0
Ethoxylatednonylphenol	9016-45-9
Alkalline Agent Potassium Hydroxide	1310-58-3

3. Hazards Identification

Signal word	Warning
Hazard statements	Causes damage to organs Causes severe eye damage May be harmful if inhaled Causes severe skin burns and eye damage Harmful if swallowed
Precautionary statements	Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat?drink or smoke when using this product.Avoid release to the environment. Wear protective gloves/eye protection/face protection. Keep only in original container.
SWALLOWED	Rinse mouth.Do NOT induce vomiting.
SKIN	Take off immediately all contaminated clothing.Rinse skin with water/shower. Wash contaminated clothing before reuse.
INHALED	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
EYES	Rinse cautiously with water for several minutes.Remove contact lenses,if present and easy to do.Continue rinsing.IF exposed or concerned ?Call a POISON CENTER/doctor.
Storage	Store locked up.
Disposal	Dispose of contents/container to waste in accordance with local/regional/national/international regulations?to be specified?.

4. First Aid Measures

INHALATION	Remove to fresh air, and take a rest in the easy style of breathe. If breathe with fee like vomiting, let a head sideways.If the breathe is weak,practice artificial respiration If feel bad, get medical attention. Do not give any drink to the victim who is unconscious.

Skin	Wash out with soap and plenty of water. If irritation and water blister develop, get medical attention as the need arises. Get a doctor's diagnosis when the cutaneous stimulus arises. There is a necessity to wash out immediately and completely the adhered products when it touched the skin. In case late or insufficient for washing, the skin trouble might occur. Immediately wash out with plenty of water, and get immdeiate medical attention. As it is strong alkaline products, keep washing out with tepid water, without using soap, until skin stimulation and gresy feeling is gone. It might take a time minimum one hour.
Eye	Carefully wash out eyes for few minutes. Then remove contact lenses, if it can be taken off easily. Afterwards keep rinsing eyes. Immediately after rinsing out eyes with clean water for at least 15 minutes, get immediate medical attention. At the time of
Ingestion	Wash out mouth by water,give two glasses of water or milk to drink. Give immdiate physician treatment. Never give anything in Wash out mouth. Seek immediate medical attention Do not vomit out. Vomiting increase risk as products is a kind of corrosive and volatile liquid.

5. Fire-fighting Measures

EXTINCTION AGENT	This product itself doesn't burn.
FIRE FIGHTING MEASURES	The extinction work to be done from the windward. Water can be used to cool fire and protect exposed material.

6. Accidental Release Measures

ACCIDENTAL RELEASE MEASURES	Attention to Human body.Protective instrument and Emergency treatment In case of indoor, fully ventilate until completion of treatment.It works from the windward, and the person in leeward to be taken shelter. Tools and materials for extinguishing fires are prepared just are prepared just in case of ignition.Let the person take shelter safely in case of a large amount.Wear the rubber glove, protective glasses, and the protection clothes, etc. when you treat the leakage.
LAND SPILL / WATER SPILL	Take care not to run off to river and sewers and prevent from occuring environment pollution. A small amount of residual liquid to be absorbed by sands ,sawdust and others. In case of small amount of liquid, stick fast by absorbent and remove remaining liquid with waste cloth As products is an alkaline material, neutralizes it with the acid which to be suitable to properties of hydrochloric acids. As this products is strong acid, dispose it after preventing outflow by fill with soil, after that leads it to the safty place. As the need arises, neutralize it with hydrochloric acid and diluted sulphuric acid, etc. Do not throw into the drainage ditch, river, and underground water.

7. Handling and Storage

HANDLING	Technical measures Use only in well ventilated areas. Use only in the adequate ventilation The equipments to wash eyes and body in an emergency is to be set up near by handling place. Do not generate steam easily and take care not to leak , overflow and disperse. Do not breathe in dispersed steam (dust). Outdoor work to be done at the windward as much as possible. The container is sealed on all such occasions.Do not put it on eyes, skins, and clothes. Do not eat, drink or smoke during work. Wear protective glove,protective glasses and protective mask. After handling, wash well hands and face and rinse your mouth. Handle it in the limited exhaust area or in the place of central ventilation systems equiped. Handle with care not to cause easily an aerosol and dust Select appropriate material as it reacts on the metal.
STORAGE	Appropriate storage conditions Shut off from direct sunshine. Keep it in a well ventilatied area. Fire prohibited strictly Keep it in the container sealed tightly. Avoid to keep with acid agent and strong-acid materials. Do not keep with Acid materials in case of pH11.5 minimum.

8. Exposure controls and personal protection

PERSONAL PROTECTION	Respiratory organs protection In case of insufficient ventilation, wear suitable respiratory equipment.
Protection tool for hand	Anti-solvent protective gloves
Protective eyewear	Protective glasses

9. Physical and chemical properties

APPEARANCE	Colorless transparent liquid
Odour	Slight odour
pH	14.4
Flammability	Non-flammable
Melting Point/Freezing Point	No information available..
Initial Boiling Point and Boiling Range	No information available
Flash Point	None
Evaporation Rate (Butyl Acetate=2)	No information available
Solid Flammability (solid,gas)	No information available
Explosion Limits	No information available
Vapor Pressure	No information available
Vapour density	No information available
Partition coefficient:n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Specific Gravity	1.15 g/cm3
Solubility in Water	Soluble in water Complete

10. Stability and reactivity

Stability	Stable
Conditions to Avoid	Mixtures of acids, isocyanates, rapid addition to hot water. Will catalyze reacting of other chemicals
Incompatibility	Strong acids
Hazardous decomposition products:	Non
Hazardous polymerization	Will not occur
Reactivity	It is stable under normal treatment. HAZARDOUS REACTIONS. DANGEROUS SUBSTANCES

11. Toxicological information

COMPONETS	ACUTE TOXICITY? Oral?	ACUTE TOXICITY ? Dermal?	ACUTE TOXICITY? Gases?	ACUTE TOXICITY? Vapours?	ACUTE TOXICITY? Dusts and Mists?	SKIN CORROSION/IRRITATION	SERIOUS EYE DAMAGE /EYE IRRITATION
Sodium hydroxide	No Data	No Data	No Data	No Data	No Data	Category1	Category1
Potassium hydroxide	No Data	No Data	No Data	No Data	No Data	Category1	Category1
Inorganic salt	No Data	No Data	No Data	No Data	No Data	Category1	Category1
Chelatingagent	No Data	No Data	No Data	No Data	No Data	Category1	Category1
Surfactant	No Data	No Data	No Data	No Data	No Data	Category3	Category2A
Fatty acid	No Data	No Data	No Data	No Data	No Data	Category1	Category1
Water	No Data	No Data	No Data	No Data	No Data	No Data	No Dat

COMPONETS	SKIN SENSITIZATION	GERM CELL MUTAGENICITY	CARCINOGENICITY	REPRODUCTIVE TOXICITY	SPECIFICTARGETORGAN SYSTEMIC TOXICITY SINGLE EXPOSURE -	SPECIFICTARGET ORGAN SYSTEMIC TOXICITY - REPEATED EXPOSURE	AspirationH
Sodium hydroxide	No Data	No Data	No Data	No Data	Category1	No Data	No Data

Potassium hydroxide	No Data	No Data	No Data	No Data	Category1	No Data	Category1
Inorganic salt	No Data	No Data	No Data	No Data	Category 2	No Data	No Data
Chelatingagent	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Surfactant	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Fatty acid	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Water	No Data	No Data	No Data	No Data	No Data	No Data	No Data

12. Ecological information

COMPONETS	HAZARDOUSTOTHEAQUATICENVIRONMENT (ACUTE)	HAZARDOUSTOTHEAQUATICENVIRONMENT (LONG-TERM)	HAZARDOUSTOTHE OZONELAYER
Sodium hydroxide	Category3	No Data	No Data
Potassium hydroxide	Category3	No Data	No Data
Inorganic salt	No Data	No Data	No Data
Chelating agent	No Data	No Data	No Data
Surfactant	Category 1	No Data	No Data
Fatty acid	No Data	No Data	No Data
Water	No Data	No Data	No Data

13. Disposal considerations

Waste from Residues / Unused Products	Consign the work to the specialized waste management trader who got a permission from a prefectural governor in case disposeof contents or container. To be obeyed a rule of special management industrial waste disposal standard.

14. Transport information

Land transport (ADR/RID)

UN number	1824
UN proper shipping name	Corrosive liquid Class.8
Hazard Class	8
Packing Group	II

Air transport (IATA)

UN number	1824
UN proper shipping name	Corrosive liquid Class.8
Hazard Class	8
Packing Group	II

Sea transport (IMDG)

UN number	1824
UN proper shipping name	Corrosive liquid Class.8

15. Regulatory information

Supply classification: Corrosive Hazard pictogram: Risk phrases: R35 Causes sever burns R43 May cause sensitisation by skin contact.
Safety phrases: S24/25 Avoid contact with skin and eyes Corrosive S26 Incase of contact with eyes, rinse immediately with plenty of water and seek medical advice
S27 Take off immediately all contaminated clothing
S28 After contact with skin, wash immediately with plenty water
S37/39 Wear suitable gloves and eye/face protection.

16. Other information

Data from the following sources have been used to compile this document.
HSE – EH40/93 Occupational exposure limits
HSE – EH29/93 Occupational skin diseases; Health and Safety Precaution
HSC – Safety Data Sheets for substances and preparation dangerous for supply.
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