

## MSDS OF MARC

### NON-ACID CLEANER (YELLOW) FOR ALUMINIUM FINNED AIR CONDITIONER COILS

<b>1. Product and company identification</b>	
Product name	MARC
CAS	Mixture
Product Use	Coil cleaner/Degreaser
Manufacturer	GEEKAY SPECIALITY CHEMICALS (INDIA) PVT LTD, 86/28, KARNATHU BUILDING, 2 <sup>ND</sup> FLOOR, PATTURAICKAL, THRISSUR-680001, KERALA, INDIA. TEL: +919074140660

<b>2. Hazards identification</b>	
Emergency overview	Danger
Potential short term health effects	Burns of eyes, skin and mucous membranes Causes eye burns and skin burns.
Routes of exposure	
Eyes	Eye, skin contact, inhalation and ingestion
Skin	Causes chemical burns. May cause blindness
Inhalation	Causes chemical burns. Harmful contact may not cause immediate pain.
Ingestion	May cause respiratory tract irritation or chemical burns. Harmful if swallowed. Causes chemical burns to mouth, throat and stomach.
Target organ	Eyes, Respiratory system and skin.
Chronic effect	Prolonged or repeated exposure to dilutions can cause drying and defatting.

<b>3. Composition</b>		
Component	CAS	%
Sodium Hydroxide	1310-73-2	40
Potassium Hydroxide	1310-58-3	40
Water	7732-18-5	20

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<b>4. First Aid Measures</b>	
Eye contact	Immediately flush with cool water. Remove contact lenses and continue flushing 15 minutes. Obtain medical attention immediately.
Skin contact	Immediately flush with cool water for 15 minutes while removing contaminated clothing. Discard or wash well before use
Inhalation	If symptoms develop more victim to fresh air, if symptoms persist, obtain medical attention
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious.
Notes to physician	Treat patient symptomatically.
General Advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

<b>5. Fire Fighting Measures</b>	
<b>Flammable properties</b>	Not Flammable
<b>Extinguishing media</b>	
Suitable extinguishing media	Dry chemical, Water spray. Carbon dioxide, Foam.
Unsuitable extinguishing media	Not available
<b>Protection of fire fighters</b>	
Specific hazards arising from the chemical	
Protective equipment for fire fighters	Not available
Hazardous combustion products	Fire Fighters should wear full protective clothing including self-contained breathing
<b>Explosion data</b>	May Include and are not limited to oxides of carbon.
Sensitivity to mechanical impact	No.

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Sensitivity to static discharge	No.
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<b>6. Accidental Release Measures</b>	
Personal precautions	<p>Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged container. Keep people away from upwind of spill/leak</p> <p>Do not discharge into lakes, streams, ponds or public water</p> <p>Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.</p> <p>Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent. Prevent large spills from entering sewers or waterways.</p>
Environmental precautions	
Methods for Containment	
Methods for cleaning up	
<b>7. Handling and Storage</b>	
Handling	<p>Ensure adequate ventilation. Do not get in eyes, on skin or on clothing. Use good industrial hygiene practices in handling this material.</p>
Storage	<p>Keep out of the reach of children. Store in a closed container away from incompatible materials.</p>

## 8. Exposure Controls/Personal Protection

<p><b>Occupational exposure limit</b> Engineering controls</p>	<p>General ventilation normally adequate.</p>
<p><b>Personal protective equipment</b> Eye/Face protection Hand protection Skin and body protection Respiratory protection</p>	<p>Wear chemical goggles. Rubber gloves. Confirm with a reputable supplier first As required by employer code. Rubber apron recommended. Avoid breathing mist or vapors.</p>

## 9. Physical and Chemical Properties

Appearance	Liquid
Colour	Pale yellow
Form	Liquid
Type	Alkaline in nature
Odour	Characteristic, Mild
Odour threshold	Not available.
Physical state	Liquid
pH	13
Freezing point	0 °C (32 °F)
Boiling point	100 °C
Pour point	Not available.
Evaporation rate	Not available
Flash point	None to boiling
Auto. ignition temperature	Not available
Flammability limit in air	
-Upper % by volume	Not available
- Lower % by volume	Not available
Heat of combustion	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific Gravity	1.2 +/- 0.005
Partition Coefficient	Not available
Solubility (Water)	Complete
Relative Density	Not available
Viscosity	Not available
VOC	Not available
Percent Volatile	Not available

## 10. Stability and Reactivity

Reactivity	Reacts violently with acids.
Possibility of hazardous reactions	This product may react with oxidizing agent. Hazardous polymerization does not occur
Chemical stability Conditions to avoid	Stable under recommended storage conditions. Hazardous vapors may be produced when mixed with chlorinated detergents or sanitizers. Do not mix with other chemicals.

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<b>11.Toxicological information</b>		
Toxicological data		
Components	Species	Test Results
<b>Potassium Hydroxide - Acute</b>		
Acute		
Dermal	Not available	Not available
Inhalation	Not available	Not available
Oral – LD 50	Rat	273 mg/kg
<b>Sodium Hydroxide - Acute</b>		
Dermal – LD 50	Rabbit	1350 mg/kg
Inhalation	Not available	Not available
Oral	Not available	Not available
<b>Effects of acute exposure</b>		
Eye contact	Causes chemical burn. May cause blindness.	
Skin contact	Causes chemical burns. Harmful contact may not cause Immediate pain.	
Inhalation	May cause respiratory tract irritation or chemical burns.	
Ingestion	Harmful if swallowed	
Sensitization	Non-Hazardous by WHMIS criteria	
Chronic Effects	Non- Hazardous by WHMIS criteria	
Carcinogenicity	Non- Hazardous by WHMIS criteria	
Mutagenicity	Non-Hazardous by WHMIS criteria	
Reproductive effects	Non- Hazardous by WHMIS criteria	
Teratogenicity	Non- Hazardous by WHMIS criteria	
Name of Toxicologically Synergistic Products	Not available	







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