

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	SHINY-SIDE
Manufacturer's Product Code	0505
Major Recommended Uses	Cleaning agent
Chemical nature	Alkaline Aqueous solution
Supplier's Details	Mega Distributors P.O Box 101085 North Shore Mail Centre Phone: +64 9 473 6505
Date of Issue	July 2019

SECTION 2 – HAZARDS IDENTIFICATION

Colour	Red
Physical State	Liquid
Odour	Odourless
GHS Classification	Physical Hazards Substances /mixtures corrosive to metals Category 1 Health Hazard Skin Corrosion/Irritation Category 1A
Labelling	
Signal Word	Danger
Hazard Statements H314 - Causes severe skin burns and eye damage H290 - May be corrosive to metals	Precautionary Statements P234 - Keep only in original container P260 - Do not breathe vapour or mist . P264 - Wash face, hands and any exposed skin thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection P390 - Absorb spillage to prevent damage P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician if unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P363 - Wash contaminated clothing before reuse P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a physician. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 - Store locked up P406 - Store in corrosive resistant high density polyethylene (HDPE) container with a resistant in liner P501 - Dispose of contents/container in accordance with applicable local regulations.

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	ENCS	Weight %
Sodium hydroxide	1310-73-2	Present	10-30
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS			UP TO 100 %

SECTION 4 – FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe vapours or spray mist.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Advice to Doctor	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point	The product is not flammable
Method	Not applicable
Auto ignition Temperature	No information available.
Flammability Limits in Air %	Hydrogen, by reaction with metals.
Upper	4
Lower	75
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂), Foam, Dry Chemical or Water fog. Foam. Alcohol-resistant foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical	Contact with metals may evolve flammable hydrogen gas. Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus pressure-demand, Safe Work, Australia (approved or equivalent) and full protective gear.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective gloves/clothing. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up & transfer to properly labelled containers. Never return spills in original containers for re-use.
Neutralizing Agent	Neutralizing Agent Acetic acid, diluted.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	Do not get in eyes, on skin or on clothing Do not breathe vapours or spray mist
Conditions for Safe Storage	Keep container tightly closed in a dry and well-ventilated place Metal containers must be lined Freezing will affect the physical condition but will not damage the material. Thaw and mix before using
Storage Temperature	Minimum 2 °C Maximum 43 °C
Storage Conditions	Indoor X Outdoor Heated Refrigerated

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component	ES-TWA	ISHL	ACGIH TLV
Sodium hydroxide	Peak: 2mg/m ³	No data available	Ceiling: 2mg/m ³
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS		No data available	No data available
Engineering Measures	Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.		
Personal Protective Equipment			
Respiratory Protection	In case of inadequate ventilation wear respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators		
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.		
Hand Protection	Protective gloves		
Skin Protection	Wear suitable protective clothing, Impervious gloves.		
General Hygiene Considerations	Wear suitable gloves and eye/face protection. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.		

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparent
Physical State	Liquid
Colour	Red
Odour	Odourless
Odour Threshold	No data available
pH	12.5 - 13.5
Specific Gravity	1.19-1.25
Boiling Point	> 100 °C
Freezing Point	No data available
Vapour Pressure	13.84mm Hg @ 21°C
Vapour Density	<1
Flash Point	The product is not flammable
Melting Point/Range	Not data available
Solubility	Completely soluble in water
Viscosity	Non viscous
Molecular Weight	No data available
Evaporation Rate	0.1 (Butyl acetate= 1)
Method	Not applicable
Auto ignition Temperature	No information available
Per Cent Volatile (Volume)	75.00 %
VOC Content (%)	0

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known
Incompatible Materials	Oxidizing agents, Acids, Aldehydes, Halogenated hydrocarbon, Acid anhydrides, Organic materials, Contact with metals liberates hydrogen gas.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Sodium oxides, Ammonia, Hydrogen, by reaction with metals.
Possibility of Hazardous Reactions	None under normal processing

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SECTION 11 – TOXICOLOGICAL INFORMATION

PRODUCT MIXTURE INFORMATION	
Principle Route of Exposure	Skin contact, Eye contact, Inhalation, (mist).
The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):	
Oral LD50	18,883.00 mg/kg
Dermal LD50	9,004.00 mg/kg
Inhalation LC50	
Gas	Not applicable
Mist	Not applicable
Vapour	Not applicable
Primary Routes of Entry	None known
MAIN SYMPTOMS	
Acute Effects	
Eyes	Corrosive to the eyes and may cause severe damage including blindness
Skin	Causes skin burns.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. May be fatal if swallowed & enter airways.
Chronic Effects	Inhaled corrosive substances can lead to a toxic oedema of the lungs
Target Organ Effects	Eyes, Skin, Respiratory system.
Aggravated Medical Conditions	Skin disorders, Respiratory disorders.

COMPONENT INFORMATION					
Acute Toxicity					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium Hydroxide	No data available	= 1350 mg/kg (Rabbit)	No data available	No data available	No data available
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	No data available	No data available	No data available	No data available	No data available

COMPONENT INFORMATION					
Chronic Toxicity					
Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium Hydroxide	No data available	No data available	No data available	No data available	Eyes, Respiratory System, Skin
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	No data available	No data available	No data available	No data available	No data available

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CARCINOGENICITY There are no known carcinogenic chemicals in this product.					
Component	ES	ACGIH	IARC	NTP	Other
Sodium Hydroxide	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 12 – ECOLOGICAL INFORMATION

Product Information No data available					
Component Information No information available.					
Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	Log Pow
Sodium Hydroxide	No data available	LC50 = 45.4 mg/L Oncorhynchusmykiss 96 h	No data available	No data available	Not applicable
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	No data available	No data available	No data available	No data available	Not applicable

Eco toxicity effects No information available
 Persistence & Degradability The product is water based & is readily biodegradable.
 Bioaccumulation No information available
 Mobility Will likely be mobile in the environment due to its water solubility but will likely degrade over time.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of in accordance with local regulations.
Container Disposal	Empty containers should be taken for local recycling, recovery, or waste disposal.

SECTION 14 – TRANSPORT INFORMATION

ADG 7	
UN-No	UN1824
Proper Shipping Name	Sodium hydroxide solution
Hazard Class	8
Packaging Group	II
Hazchem Code	2R
Shipping Description	UN1824,SODIUM HYDROXIDE SOLUTION,8,PG II

SECTION 15 – REGULATORY INFORMATION

Australia	
Poison Schedule (SUSMP)	Schedule 5

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