

Material Safety Data Sheet

Material Name: Marine Strip

*** Section 1 - Chemical Product and Company Identification ***

Product Use: Paint & Antifouling Stripper. Based on caustic soda.

Manufacturer Information

DURIEU S.A..
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*** Section 2 - Hazards Identification ***

Emergency Overview

Corrosive. Causes severe burns.

Potential Health Effects: Eyes

Can cause severe injuries.

Potential Health Effects: Skin

In case of contact with skin, without any protection, can cause severe burns. Immediate skin decontamination is necessary.

Potential Health Effects: Ingestion

Causes severe burns and pain in mouth, throat and stomach.

Potential Health Effects: Inhalation

No health hazards are anticipated via this route of exposure.

HMIS Ratings: Health: 3 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
7732-18-5	Water	>70
1310-73-2	Sodium hydroxide	>10
85049-30-5	Bentonite, sodian	>3
39386-78-2	Tamarind seed gum	>2

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Wash thoroughly with soft clean water for 15 minutes holding the eyelids open. Refer to an ophthalmologist in particular if there is any redness, pain or visual impairment.

First Aid: Skin

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognized cleaner. DO NOT use solvents or thinners.

First Aid: Ingestion

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital.

First Aid: Inhalation

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

None

Hazardous Combustion Products

Not Determined

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Extinguishing Media

Dry sand. In the event of fire, use appropriate extinguishing media. Never use water.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Prevent any material from entering drains or waterways. Avoid any contact with the skin and eyes.

Clean-Up Procedures

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13). If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

None

*** Section 7 - Handling and Storage ***

Handling Procedures

Handle in well-ventilated areas. Keep containers tightly closed. Observe precautions stated on label and also industrial safety regulations. Avoid contact of product with the skin and eyes. Packages which have been opened must be reclosed carefully and stored in an upright position. Never open the packages under pressure. Smoking, eating and drinking are prohibited in premises where the product is used.

Storage Procedures

Keep the container tightly closed in a dry place. The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area. Do not keep in plastic containers - may soften plastic. Opened container must be thoroughly closed and kept in vertical position. Keep away from corrosive agents such as strong acids or alkalines to avoid possible leakage or self combustion. Store between +5°C and +30°C in a dry, well ventilated place.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

Sodium hydroxide (1310-73-2)

ACGIH: 2 mg/m3 Ceiling

OSHA: 2 mg/m3 Ceiling

NIOSH: 2 mg/m3 Ceiling

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

Personal Protective Equipment: Skin

Use impervious gloves.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

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Appearance: Milky
Physical State: Viscous liquid
Vapor Pressure: NA
Boiling Point: 100 °C.
Solubility (H2O): Dilutable
Evaporation Rate: ND
Octanol/H2O Coeff.: ND
Flash Point Method: NA

Odor: None
pH: >13
Vapor Density: >1
Melting Point: ND
Specific Gravity: >1
VOC: ND
Flash Point: NA
Upper Flammability Limit (UFL): NA
Burning Rate: NA

Lower Flammability Limit (LFL): NA
Auto Ignition: NA

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Keep away from corrosive agents such as strong acids or alkalines to avoid possible leakage or self combustion.

Incompatibility

None

Hazardous Decomposition

Not Determined

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Sodium hydroxide (1310-73-2)

Dermal LD50 Rabbit 1350 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

Do not allow this product to penetrate the ground water, waters or the drains.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium hydroxide (1310-73-2)

Test & Species

96 Hr LC50 Oncorhynchus mykiss

Conditions

45.4 mg/L [static]

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

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Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)

UN/NA #: 1719 **Hazard Class:** 8 **Packing Group:** II

TDG Information

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UN/NA #: 1719 **Hazard Class:** 8 **Packing Group:** II

*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Sodium hydroxide (1310-73-2)

CERCLA: 1000 lb final RQ; 454 kg final RQ

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Sodium hydroxide	1310-73-2	Yes	Yes	Yes	Yes	Yes	Yes

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium hydroxide	1310-73-2	1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Sodium hydroxide	1310-73-2	Yes	DSL	EINECS
Bentonite, sodian	85049-30-5	No	DSL	EINECS
Tamarind seed gum	39386-78-2	Yes	NDSL	EINECS

*** Section 16 - Other Information ***

Other Information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

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Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.