

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 OSHA Regulation 29 CFR 1910.1200 Canadian Regulation SOR/88-66

Revision Date: 2015-01-05

Reason for Revision: Updated Product Description

SECTION 2: HAZARD IDENTIFICATION

Highly flammable liquid and vapour. Causes severe skin burns and eye damage.

According to Regulation (EC) No. 1272/2008:

Classification: Flammable Liquids (Category 2)

Skin Corrosion (Category 1A)

Signal Word: Danger

Pictograms:



Hazard H225: Highly flammable liquid and vapour.

Statements: H314: Causes severe skin burns and eye damage.

Precaution P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking. **Statements:** P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

According to Directives 67/548/EEC and 1999/45/EC:

Symbol: C: Corrosive

F: Highly Flammable

R-phrases: 11-35: Highly flammable. Causes severe burns.

S-phrases: 16-26-37/39-45: Keep away from sources of ignition - No smoking. In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or if

you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Ethyl alcohol	EC No: 200-578-6	CAS No: 64-17-5	<i>Hazard Class:</i> Flam. Liq. 2 F	Phrases: H225 R: 11	Concentration: > 50% - < 75%
Sodium Hydroxide	215-185-5	1310-73-2	Skin Corr. 1A C	H314 R: 35	> 5% - < 15%



Alkaline Cleaning Solution for Meat, Grease and Fats Safety Data Sheet

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SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Call in physician.

After Skin Contact: Wash affected area with plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing.

After Eye Contact: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.

After Swallowing: Make victim drink plenty of water (if necessary several liters), avoid vomiting (risk of perforation!). Immediately call in

physician. Do not attempt to neutralize.

General Information: Remove contaminated, soaked clothing immediately and dispose of safely.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Foam, Dry Powder, Carbon Dioxide

Special Risks:

Combustible. Vapors heavier than air. Forms explosive mixtures with air at ambient temperatures. Keep away from sources of ignition.

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Cool container with spray water from a save distance. Take measures to prevent electrostatic charging.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid substance contact. Do not inhale vapors. Ensure supply of fresh air in enclosed rooms.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Take up with liquid-absorbent material.

Render harmless: neutralize with diluted sulfuric acid solution.

SECTION 7: HANDLING AND STORAGE

Handling:

Takes measures to prevent electrostatic charging. Keep away from sources of ignition. Work under hood. Do not inhale substance. Avoid generation of vapors/aerosols.

Storage:

Tightly closed. In a well ventilated place. Keep away from sources of ignition and heat. Store at room temperature (+15 to +25 $^{\circ}$ C recommended). Protect from light and moisture. Accessible only for authorized persons.





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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION					
Туре	Value	Source	Туре	Value	Source
Ethanol (Dena	atured)				
TWA (8hr)	1907 mg/m³	Belgium	TWA (8hr)	1900 mg/m³	Canada (Ontario)
TWA (8hr)	1880 mg/m³	Canada (Quebec)	TWA (8hr)	1900 mg/m³	France
TWA (8hr)	960 mg/m³	Germany	TWA (8hr)	1900 mg/m³	Greece
TWA (8hr)	1900 mg/m³	Hungary	TWA (8hr)	260 mg/m³	Netherlands
TWA (8hr)	1900 mg/m³	Poland	TWA (8hr)	1000 ppm	Portugal
TWA (8hr)	1900 mg/m³	Romania	TWA (8hr)	1910 mg/m³	Spain
TWA (8hr)	1920 mg/m³	UK	TWA (8hr)	1000 ppm	USA (ACGIH)
TWA (8hr)	1900 mg/m³	USA (OSHA)			
Sodium Hydro	oxide				
Ceiling	2 mg/m³	Australia	Ceiling	2 mg/m³	Belgium
Ceiling	2 mg/m³	Canada (Ontario)	Ceiling	2 mg/m³	Canada (Quebec)
TWA (8hr)	2 mg/m³	France	TWA (8hr)	2 mg/m³	Greece
TWA (8hr)	2 mg/m³	Hungary	Ceiling	2 mg/m³	New Zealand
TWA (8hr)	0.5 mg/m³	Poland	Ceiling	2 mg/m³	Portugal
TWA (8hr)	1 mg/m³	Romania	Ceiling	2 mg/m³	Spain
TWA (15min)	2 mg/m³	UK	Ceiling	2 mg/m³	USA (ACGIH)
TWA (8hr)	2 mg/m³	USA (OSHA)			
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Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Respiratory Protection: Protective Gloves: Eye Protection:

Required when vapors/aerosols are generated. Work under hood.

Rubber or plastic Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Apply skin-protective barrier cream. Wash hands after working with substance.

SECTION 9:	PHYSICAL/CHEMICAL PROPERTIES
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Appearance:Colorless liquidOdor:Alcohol-like odorDensity at 20°C:0.94 g/cm³Melting Point:NDBoiling Point:NDSolubility:Soluble

pH at 20°C: 14 Explosion Limit: Lower 3.5 vol% Flash Point: ~12°C (ethanol) c.c.

(ethanol) Upper not available 15.0

vol% (ethanol)

Thermal Decomp.: NA





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SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Flammable. Explosive with air in a vaporous/gaseous state. Incompatible with various metals, various alloys, various plastics, animal/vegetable tissues, glass.

Hazardous Decomposition Products:

No information available.

Substances to be Avoided:

Alkali metals, alkaline earth metals, alkali oxides, strong oxidizing agents, halogen-halogen compounds, CrO3, chromyl chloride, ethylene oxide, fluorine, perchlorates, potassium permanganate / sulfuric acid, perchloric acid, permanganic acid, phosphorus oxides, nitric acid, nitrogen dioxide, uranium hexafluoride, hydrogen peroxide

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

APPLICABLE TO MAIN COMPONENT:

Specific symptoms in animal studies:

Eye irritation test (rabbit): Irritations (ethanol). Skin irritation test (rabbit): No irritation (ethanol).

Subacute to chronic toxicity

Applicable to the main component:

Sensitization:

Sensitization test (Magnusson and Kligman): negative. Bacterial mutagenicity: Salmonella typhimurium: negative.

Bacterial mutagenicity: Ames test: negative.

Potential Health Effects:

Inhalation: Irritation symptoms in the respiratory tract.

Skin Contact: Burns

Eye Contact: Burns. Risk of blindness! Risk of corneal clouding.

Ingestion: Burns. Risk of perforation in the oesophagus and stomach.

Further Data: Systemic effects: Narcosis. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity: Chronic Toxicity:

Not Available

Ethanol (Denatured)

LD50: Oral - Rat - 7060 mg/kg

Additional Data:

Not Available





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SECTION 12: ECOLOGICAL INFORMATION

APPLICABLE TO MAIN COMPONENT:

Abiotic degradation: Rapid degradation. (air) Biologic degradation:

Biodegradation: 94 % modified OECD screening test

Readily biodegradable.

Behavior in environmental compartments: Distribution: log p(o/w): -0.32 (ethanol);

No bioaccumulation is to be expected (log P(o/w <1).

Ecotoxic effects:

Biological effects: Harmful effect on aquatic organisms. Harmful effect due to pH shift.

Fish toxicity: L.idus LC 50: 8140 mg/L /48 h (ethanol).

Daphnia toxicity: Daphnia magna EC 50: 9268-14221 mg/L /48 h (ethanol).

Further Data: No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: TRANSPORTATION INFORMATION

Land (ADR/RID): Sea (IMDG): Air (ICAO/IATA):

UN No.: 2924 2924 2924

Flammable liquid, corrosive, n.o.s. Flammable liquid, corrosive, n.o.s. Flammable liquid, corrosive, n.o.s. **Proper Shipping**

Name: (sodium hydroxide, ethanol solution) (sodium hydroxide, ethanol solution) (sodium hydroxide, ethanol solution)

3 (8) 3 (8) 3 (8) Class (Sub Risk): Ш Ш П **Packing Group:**

Marine Pollutant: No

SECTION 15: REGULATORY INFORMATION

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.

Complies with European Council Directives 67/548/EEC and 1999/45/EC.

Complies with OSHA Regulation 29 CFR 1910.1200.

Complies with Canadian Regulation SOR/88-66

All chemical substances in this product are listed on the TSCA Inventory.

SECTION 16: OTHER INFORMATION

Text of phrases under Section 3 Revision Information

R11: Highly flammable. **Revision Date:** 2015-01-05 R35: Causes severe burns. Supersedes edition of: 2014-08-05 H225: Highly flammable liquid and vapour.

H314: Causes severe skin burns and eye damage. **Updated Product Description** Reason for revision:

NA: Not Applicable ND: Not Determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.

Legend

