

Safety Data Sheet

FOAMY COIL

SDS Revision Date:

12/12/2022



1. Identification

1.1. Product identifier

Product Identity

FOAMY COIL

Alternate Names

90-184, Blended Formula, Foamy Coil, Ultra High Foaming Condenser Coil Cleaner & Brightener, 1 gallon

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

It is a heavy duty non-acid, high foaming coil cleaner & brightener. Removes airborne debris caught in between fins, grease, and oil accumulations.

Application Method

Read all precautions and instruction carefully before and after use.

1.3. Details of the supplier of the safety data sheet

Company Name

ComStar International Inc.
20-47 128th Street,
College Point, NY 11356

Telephone No.

718-445-7900
800-328-0142
Fax: 718-353-5998

Emergency 24 HR response No: 1-800-424-9300 & 703-527-3887 CHEMTREC

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Corrosive to Metals, H290; Category 1 May be corrosive to metals.

Skin corrosion/irritation, H314 Category 1B Causes severe skin burns and eye damage.

Serious eye damage/eye irritation, H318; Category 1 Causes serious eye damage.

Hazardous to the aquatic environment-Acute Hazard H402: Category 3 Harmful to aquatic life

2.2. Label elements

Full text of H statements: See section 16

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**GHS05
DANGER**

Signal word

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H402 Harmful to aquatic life

[Prevention]:

P260 Do not breathe mist / vapors / spray.

P264 Wash exposed skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear eye protection, face protection, protective clothing, protective gloves.

P301+P330+P331 If swallowed: Rinse mouth. Do not induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+P340 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do - continue rinsing.

P310 Immediately call a poison center or doctor / physician.

P363 Wash contaminated clothing before reuse.

[Storage]:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification: None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
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SODIUM HYDROXIDE SOLUTION CAS #: 1310-73-2	<50	Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 3 H402	
SODIUM GLUCONATE CAS#: 527-07-1	>10	Not Classified	
SURFACTANT PACKAGE CAS#: N/A	>10	Not Classified	
Water CAS#: N/A	Balance	Not Classified	

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

Inhalation

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Eyes

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist. service. If burned surface > 10%: take victim to hospital.

Skin

Wipe off dry product from skin. Remove clothing before washing. Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

Ingestion

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital.

4.2. Most important symptoms and effects, both acute and delayed

Overview

On continuous/repeated exposure/contact: Dry skin. Skin rash/inflammation. Possible inflammation of the respiratory tract.

Inhalation

When processed: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. On continuous/repeated/exposure/contact: Respiratory

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Symptoms/effects after eye contact	difficulties: Following symptoms may appear later: Possible laryngeal spasm/oedema of the upper respiratory tract. Risk of lung edema. Respiratory difficulties. Corrosion of the eye tissue. Permanent eye damage. Causes serious eye damage
Symptoms/effects after skin contact	Blisters. Caustic burns/corrosion of the skin. Slow-healing wounds.
Symptoms/effects after ingestion	Dry/sore throat. Nausea. Abdominal pain. Blood in vomit. Difficulty in swallowing. Possible esophageal perforation. Burns to the gastric/intestinal mucosa. Bleeding of the gastrointestinal tract. Shock.
Chronic symptoms	On continuous/repeated exposure/contact: Dry skin. Skin rash/inflammation. Possible inflammation of the respiratory tract. Gastrointestinal complaints.
Immediate medical attention and special treatment, if necessary	Obtain medical assistance

5. Fire-fighting measures

5.1. Extinguishing media

Adapt extinguishing media to the environment for surrounding fires.

5.2. Special hazards arising from the substance or mixture

Fire hazard:

Direct Fire Hazard: Noncombustible:

Explosion hazard

Indirect Explosion Hazard: Reactions with explosion hazards: see "Reactivity Hazard".

Reactivity

May be corrosive to metals. Absorbs the atmospheric CO₂. Violent to explosive reaction with (some) acids. Reacts violently with many compounds: heat release resulting in increased fire or explosion risk. Violent exothermic reaction with water (moisture): release of corrosive mist. Reacts exothermically on exposure to water (moisture) with combustible materials: risk of spontaneous ignition

5.3. Advice for fire-fighters

Precautionary measures fire:

Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighborhood close doors and windows.

Firefighting instructions:

Cool tanks/drums with water spray/remove them into safety. When cooling/extinguishing: no water in the substance. Take account of toxic fire-fighting water. Use water moderately and if possible, collect or contain it

Protection during firefighting

Heat/fire exposure: compressed air/oxygen apparatus.

Wear self-contained breathing apparatus and protective clothing.

ERG Guide No. ---137

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6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

General measures:

Absorb spillage to prevent material damage. Dike and contain spill.

For non-emergency personnel

Protective equipment

Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen apparatus. Contact with moisture/water: compressed air/oxygen apparatus. Contact with moisture/water: gas-tight suit.

Emergency procedures

Mark the danger area. Prevent dust cloud formation. Corrosion-proof appliances. Keep containers closed. Avoid ingress of water in the containers. Wash contaminated clothes. On contact with moisture/water: keep upwind. On contact with moisture/water: consider evacuation. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

Measures in case of dust release

In case of dust production: keep upwind. Dust production: have neighborhood close doors and windows.

For emergency responders

Protective equipment

Equip cleanup crew with proper protection. Do not breathe dust.

Emergency procedures

Stop release

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment

Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain.

Methods for cleaning up

Collect the spill only if it is in a dry state. Wetted substance: cover with powdered limestone or dry sand, earth, vermiculite. Scoop solid spill into closing containers. Under controlled conditions: neutralize leftovers with dilute acid solution. Possible violent reaction if you neutralize. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

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7. Handling and storage

7.1. Precautions for safe handling

Avoid raising dust. Avoid contact of substance with water. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Use corrosion proof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain.

Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible products:

combustible materials. metals. Strong acids. Strong oxidizers. Protect from moisture.

Incompatible materials

incompatible materials. Moisture. Heat sources.

Storage temperature

20 °C

Heat and ignition sources

Keep substance away from: heat sources.

Prohibitions on mixed storage

Keep substance away from: combustible materials. oxidizing agents. (strong) acids. metals. organic materials. water/moisture

Storage area

Store in a dry area. Keep container in a well-ventilated place. Keep locked up. Unauthorized persons are not admitted. Store at ambient temperature. Keep only in the original container. Meet the legal requirements

Special rules on packaging

Special Requirements: hermetical. watertight. corrosion-proof. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.

Packaging materials

Suitable Material: stainless steel. nickel. polyethylene. paper. Material To Avoid: lead. aluminum. copper. tin. zinc. bronze. textile.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

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CAS No.	Ingredient	Source	Value
1310-73-2	SODIUM HYDROXIDE SOLUTION	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
		ACGIH Ceiling (mg/m ³)	2 mg/m ³
		NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³
		US IDLH (mg/m ³)	10 mg/m ³
527-07-1	SODIUM GLUCONATE	OSHA PEL (TWA) (mg/m ³)	No Established Limit
		ACGIH Ceiling (mg/m ³)	No Established Limit
		NIOSH REL (ceiling) (mg/m ³)	No Established Limit
		ACGIH Ceiling (mg/m ³)	No Established Limit
N/A	SURFACTANT PACKAGE	OSHA PEL (TWA) (mg/m ³)	No Established Limit
		ACGIH Ceiling (mg/m ³)	No Established Limit
		NIOSH REL (ceiling) (mg/m ³)	No Established Limit
		US IDLH (mg/m ³)	No Established Limit
N/A	WATER	OSHA PEL (TWA) (mg/m ³)	No Established Limit
		ACGIH Ceiling (mg/m ³)	No Established Limit
		NIOSH REL (ceiling) (mg/m ³)	No Established Limit
		US IDLH (mg/m ³)	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
1310-73-2	SODIUM HYDROXIDE SOLUTION	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
527-07-01	SODIUM GLUCONATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
N/A	SURFACTANT PACKAGE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
N/A	WATER	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

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		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
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8.2. Appropriate engineering controls

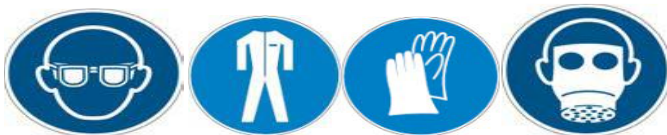
Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Protective clothing. Gloves. Dust/aerosol mask with filter type P3.



Materials for protective clothing:

Give good resistance: natural rubber, neoprene, nitrile rubber. Give less resistance: butyl rubber, polyethylene, PVA. Give poor resistance: natural fibers

8.2. Exposure controls

Respiratory	Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus.
Eyes	Face shield. In case of dust production: protective goggles.
Skin and body protection	Corrosion-proof clothing. In case of dust production: head/neck protection.
Hand protection	Gloves

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9. Physical and chemical properties

Appearance	Colored Liquid
Odor	Slight odor
Odor threshold	Not Measured
pH	>13
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	370 F/188 C
Flash Point	None
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 135C(275F): NA Upper Explosive Limit: 199C(390F): NA
Vapor pressure (Pa)	6 mmHg (at 70 F)
Vapor Density	Not Measured
Specific Gravity	> 2 (H2O = 1)
Solubility in Water	Complete
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	(ASTM D 2155): NA
Decomposition temperature	Not Measured
Viscosity (cSt)	25C/77F: NA
Volatiles (% by weight)	NA
Octanol/Water Partition Coefficient	NA

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

May be corrosive to metals. Absorbs the atmospheric CO₂. Violent to explosive reaction with (some) acids. Reacts violently with many compounds: heat release resulting in increased fire or explosion risk. Violent exothermic reaction with water (moisture): release of corrosive mist. Reacts exothermically on exposure to water (moisture) with combustible materials: risk of spontaneous ignition.

10.2. Chemical stability

Hygroscopic. Unstable on exposure to air.

10.3. Possibility of hazardous reactions

Reacts violently with acids. Reacts violently with water.

10.4. Conditions to avoid

Moisture. Incompatible materials.

10.5. Incompatible materials

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Water. Strong oxidizers. Strong acids. metals. combustible materials.

10.6. Hazardous decomposition products

Sodium oxide

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
SODIUM HYDROXIDE (1310-73-2)	35156 mg/kg	1350 mg/kg	No data available	No data available	No data available
SODIUM GLUCONATE (527-07-01)	No data available	No data available	No data available	No data available	No data available
SURFACTANT PACKAGE (N/A)	No data available	No data available	No data available	No data available	No data available
WATER (N/A)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

11. Toxicological information

Classification	Category	Hazard Description
Likely routes of exposure		Skin and eyes contact
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1A	Causes severe eye damage pH: 14 (5%)
Serious eye damage/irritation	1	Causes serious eye damage. pH: 14 (5%)
Respiratory sensitization	---	Not classified
Skin sensitization	---	Not classified
Germ cell mutagenicity	---	Not classified
Carcinogenicity	---	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	---	Not classified
STOT-single exposure	---	Not classified
STOT-repeated exposure	---	Not classified
Aspiration hazard	---	Not classified

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Potential adverse human health effects and symptoms	---	Causes severe skin burns. Causes serious eye damage.
Symptoms/effects after inhalation	---	When Processed: Dry/sore throat. Coughing, Irritation of the respiratory track. Irritation of the nasal mucous membranes. On continuous/repeated/exposure/contact: Respiratory difficulties. Following symptoms may appear later: Possible oedema of the upper respiratory tract. Possible laryngeal spasm/oedema. Risk of lung oedema.
Symptoms/effects after skin contact	---	Blisters. Caustic burns/corrosion of the skin. Slow-healing wounds.
Symptoms/effects after eye contact	---	Corrosion of the eye tissue. Permanent eye damage.
Symptoms/effects after ingestion	---	Dry/sore throat. Nausea. Abdominal pain. Blood in vomit. Difficulty in swallowing. Possible esophageal perforation. Burns to the gastric/intestinal mucosa. Bleeding of the gastrointestinal tract. Shock
Chronic symptoms	---	On continuous/repeated/exposure/contact: Respiratory difficulties: Dry skin. Skin rash/inflammation. Possible inflammation of the respiratory tract. Gastrointestinal complaints.

12. Ecological information

12.1. Toxicity

Ecology – general: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

Ecology – air: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006).

Ecology - water: Ground water pollutant. Maximum concentration in drinking water: 200 mg/l (sodium) (Directive 98/83/EC). Harmful to fishes. Harmful to invertebrates (Daphnia). pH shift.

Aquatic Ecotoxicity

LC50 fish 1: 45.4 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value.

Ingredient	96 hr. LC50 fish, mg/l	48 hr. EC50 crustacea, mg/l	ErC50 algae, mg/l
SODIUM HYDROXIDE SOLUTION (1310-73-2)	45.4 mg/l	40.38 mg/	Not Available
SODIUM GLUCONATE (527-07-01)	Not Available	Not Available	Not Available

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SURFACTANT PACKAGE (N/A)	Not Available	Not Available	Not Available
WATER (N/A)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

Biodegradability: not applicable. No test data on mobility of the components available

Biochemical oxygen demand (BOD)

Not applicable (inorganic)

Chemical oxygen demand (COD)

Not applicable (inorganic)

ThOD

Not applicable

12.3. Bioaccumulative potential

Not bioaccumulative

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed with other waste. Different types of hazardous waste shall not be mixed if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport, or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove for physico-chemical/biological treatment. Do not discharge into drains or the environment.

Additional information

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Ecology- waste materials

Avoid release to the environment

14. Transport information

NOTE: Containers holding less than 1 kilo (2.2 lbs.) are shipped as non-hazardous LTD QTY.

Department of Transportation (DOT)

In accordance with DOT

Transport document description:

UN 1824 Sodium hydroxide solution, 8, II

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UN-No. (DOT)
Proper Shipping Name (DOT)
Transport hazard class(es) (DOT)
173.136
Packing group (DOT)
Hazard labels (DOT)

UN 1824
Sodium hydroxide solution
8 - Class 8 - Corrosive material 49 CFR
II - Medium Danger
8 - Corrosive



Corrosive 8

DOT Packaging Non Bulk (49 CFR 173.xxx) 202
DOT Packaging Bulk (49 CFR 173.xxx) 242
DOT Special Provisions (49 CFR 172.102)

B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: t_r is the maximum mean bulk temperature during transport, t_f is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (t_f) and the maximum mean bulk temperature during transportation (t_r) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d_{15} and d_{50} are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

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DOT Packaging Exceptions (49 CFR 173.xxx)	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	30 L
DOT Vessel Stowage Location "on deck" or and on a passenger	A - The material may be stowed "under deck" on a cargo vessel vessel.
DOT Vessel Stowage Other	52 - Stow "separated from" acids
Other information	No supplementary information available.

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T7 - 4 178.274(d)(2) Normal.....
178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: t_r is the maximum mean bulk temperature during transport, t_f is the temperature in degrees Celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (t_f) and the maximum mean bulk temperature during transportation (t_r) both in degrees Celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d_{15} and d_{50} are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 30 L DOT Vessel Stowage Location: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other: 52 - Stow "separated from" acids other information: No supplementary information available

15. Regulatory information

15.1. US Federal regulations

Sodium Hydroxide (1310-73-2)

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Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000lb
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation
Aluminum Chips (7429-90-5)	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Sodium Hydroxide Solution (1310-73-2)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

15.2. International regulations

CANADA

Sodium Hydroxide (1310-73-2)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H290 Corrosion to metal

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage.

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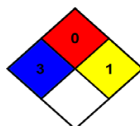
H318 Causes serious eye damage.

H402 Harmful to aquatic life.

NFPA health hazard 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Hazard Rating

Health 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability 0 Minimal Hazard - Materials that will not burn

Physical 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection F
F-Safety glasses, Gloves, Synthetic apron, Dust respirator

The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.

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