



VAPCO PRODUCTS, INC.

**Safety Data Sheet
Foaminator Powder**

SECTION 1: Identification

GHS Product identifier

| | |
|----------------|-------------------|
| Product name | Foaminator Powder |
| Product number | FMP-1 |
| Brand | Vapco |

Recommended use of the chemical and restrictions on use

Alkaline coil cleaner

Supplier's details

| | |
|-----------|---|
| Name | Vapco Products, Inc. |
| Address | 401 Marshall Road Valley Park, Missouri 63088 United States |
| Telephone | (636) 923-2121 |
| Fax | (636) 923-3002 |
| email | info@VapcoProducts.com |

Emergency phone number

(800) 255-3924

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 1
- Corrosive to metals, Cat. 1
- Skin corrosion/irritation, Cat. 1A

GHS label elements, including precautionary statements

Safety Data Sheet

Pictogram



Signal word

Danger

Hazard statement(s)

H290

May be corrosive to metals

H314

Causes severe skin burns and eye damage

Precautionary statement(s)

P234

Keep only in original container.

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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 person to fresh air and keep comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

P314

Get medical advice/attention if you feel unwell.

P321

Specific treatment (see First Aid on this label).

P363

Wash contaminated clothing before reuse.

P390

Absorb spillage to prevent material-damage.

P405

Store locked up.

P406

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

P501

Dispose of contents/container to the specifications of local, regional, national, and international regulations.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Sodium hydroxide

Concentration

75 - 85 % (weight)

EC no.

215-185-5

CAS no.

1310-73-2

Index no.

011-002-00-6

2. Tetrasodium ethylenediaminetetraacetate tetrahydrate

Concentration

0.1 - 1 % (weight)

EC no.

200-573-9

CAS no.

64-02-8

Index no.

607-428-00-2

Safety Data Sheet

SECTION 4: First-aid measures

Description of necessary first-aid measures

| | |
|-------------------------|--|
| General advice | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| If inhaled | First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention. |
| In case of skin contact | Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing immediately. Obtain medical attention if irritation develops or persists. |
| In case of eye contact | Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. |
| If swallowed | Rinse mouth. Do NOT induce vomiting. Obtain medical attention. |

Most important symptoms/effects, acute and delayed

Acute Health Hazards: Causes severe burns.

Chronic Health Hazards: Dermatitis may occur due to long-term irritation.

Note to Physician: The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage.

Indication of immediate medical attention and special treatment needed, if necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use appropriate media for surrounding fire.

Specific hazards arising from the chemical

N/A

Special protective actions for fire-fighters

Firefighting Instructions: Use dry chemical, foam, or carbon dioxide (CO₂). Do not breathe fumes from fire or vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Hazardous Combustion Products: Carbon oxide(s), nitrogen oxide(s), sodium oxides, and alkaline vapors in fire.

Further information

Do not allow run-off from fire fighting to enter drain or water courses.

Safety Data Sheet

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedure: Eliminate ignition source first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental precautions

Prevent entry into sewers and public waters. Avoid release to the environment.

Methods and materials for containment and cleaning up

For Containment: Ventilate area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Waste Disposal: Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld.

RCRA Status: Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Other Precautions: Keep out of reach of children. Follow label instructions. Vapors may collect in low lying area.

Conditions for safe storage, including any incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Store in a dry, cool place. Keep only in the original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids and aluminum alloys.

Safety Data Sheet

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 1310-73-2

Sodium hydroxide

ACGIH (USA): (C) 2 mg/m3 TLV® inhalation; Cal/OSHA (USA): (C) 2 mg/m3 PEL inhalation; NIOSH (USA): (C) 2 mg/m3 REL inhalation; OSHA (USA): 2 mg/m3 PEL inhalation

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in well-ventilated area. Ensure all local, regional, national, and international regulations are observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

Skin protection

Wear protective gloves and clothing.

Body protection

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/ flame resistant/retardant clothing.

Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

SECTION 9: Physical and chemical properties and safety characteristics

Basic physical and chemical properties

| | |
|--|------------------|
| Physical state | Solid |
| Appearance | Powder |
| Color | Off-White |
| Odor | No distinct odor |
| Odor threshold | N/D |
| Melting point/freezing point | N/D |
| Boiling point or initial boiling point and boiling range | N/D |

Safety Data Sheet

| | |
|--|--|
| Flammability | Not considered a flammable solid by OSHA (29CFR 1910.1200) |
| Lower and upper explosion limit/flammability limit | N/D |
| Flash point | N/D |
| Auto-ignition temperature | N/D |
| Decomposition temperature | N/D |
| pH | N/A |
| Kinematic viscosity | N/A |
| Solubility | Completely soluble in water |
| Partition coefficient n-octanol/water (log value) | N/D |
| Vapor pressure | >18 mm Hg |
| Evaporation rate | <0.8 (Slow) |
| Density and/or relative density | N/D |
| Relative vapor density | 1 (Air=1) |

Particle characteristics

Solids (%): 100%

Supplemental information regarding physical hazard classes

N/A

Further safety characteristics (supplemental)

Volatile Organic Compounds: 0%

Dielectric Strength (Volts): N/D

SECTION 10: Stability and reactivity

Reactivity

Chemically active metals and acids.

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions

None known.

Conditions to avoid

Do not mix with strong acids.

Incompatible materials

Strong acids and aluminum alloys.

Hazardous decomposition products

Carbon oxide(s), nitrogen oxide(s), sodium oxides, and alkaline vapors in fire.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Sodium hydroxide solid or pellets

LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h

Safety Data Sheet

LC50 - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h
EC50 - Daphnia magna (water flea) - 40.38 mg/l - 48 h
LC50 - Poecilia reticulata (guppy) - 196 mg/l - 96 h

Tetrasodium ethylenediaminetetraacetate tetrahydrate
LD50 Oral - Rat - 630 - 1,260 mg/kg

Skin corrosion/irritation

Causes irritation, absorbed, may cause burns if left on skin.

Serious eye damage/irritation

Causes severe irritation, burning, redness, tearing, pain, may cause lens or corneal damage.

Respiratory or skin sensitization

Dermatitis may occur due to long-term irritation.

Germ cell mutagenicity

None known.

Carcinogenicity

None known.

Reproductive toxicity

None known.

STOT-single exposure

None known.

STOT-repeated exposure

None known.

Aspiration hazard

The ATE (gas inhalation) of the mixture is: 450000 ppmV.

Additional information

Medical Condition Aggravated: May aggravate pre-existing medical conditions.

SECTION 12: Ecological information

Toxicity

Sodium hydroxide solid or pellets

LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h
LC50 - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h
EC50 - Daphnia magna (water flea) - 40.38 mg/l - 48 h
LC50 - Poecilia reticulata (guppy) - 196 mg/l - 96 h

Tetrasodium ethylenediaminetetraacetate tetrahydrate
LD50 Oral - Rat - 630 - 1,260 mg/kg

Persistence and degradability

This product is biodegradable.

Safety Data Sheet

Bioaccumulative potential

This product is not expected to bioaccumulate.

Mobility in soil

This product is mobile in soil.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use.

Waste treatment

RCRA Status: Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container.

SECTION 14: Transport information

DOT (US)

UN Number: UN3262

Class: 8

Packing Group: I

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s.

IMDG

UN Number: UN3262

Class: 8

Packing Group: I

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s.

IATA

UN Number: UN3262

Class: 8

Packing Group: I

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Safety Data Sheet

Massachusetts Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

New Jersey Right To Know Components

Common name: SODIUM HYDROXIDE

CAS number: 1310-73-2

Ethylenediaminetetraacetic acid tetrasodium salt hydrate

CAS-No. 194491-31-1

Pennsylvania Right To Know Components

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

Ethylenediaminetetraacetic acid tetrasodium salt hydrate

CAS-No. 194491-31-1

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Acute Health Hazard

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Toxic Substances Control Act (TSCA) Inventory

All chemicals are listed or exempt.

SECTION 16: Other information

N/A = Not applicable; N/D = Not determined

Further information/disclaimer

To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

Safety Data Sheet

Preparation information

Prepared by: Jessica Wilson

Date prepared: 6/13/2023