

Safety Data Sheet

Section 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name: **SEWER SOLVENT**
Synonym: Sodium Hydroxide, Solid Mixture
Product Item No.: EM-2000

1.2 Recommended use of the product and restrictions on use

Uses: Sewer Line & Drain Line Opener
Restrictions: Avoid contact with soft metals
Product dilution: Product is not able to be diluted

1.3 Details of the supplier of the safety data sheet

Company: Emtech Laboratories, Inc.
580 S. Cemetery Street
Norcross, GA. 30071
Telephone: 877-753-3271
Fax Phone Number: 888-294-7060

1.4 Emergency telephone number

Emergency Phone Number: 678-534-8007

Section 2. Hazards Identification

2.1 Classification of the substance or mixture:

Health hazards

Skin corrosion (Category 1A)
Serious eye damage (Category 1)

Environmental hazards

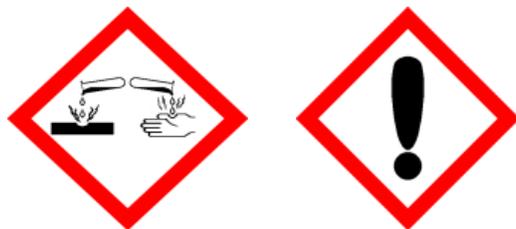
Acute aquatic toxicity (Category 3)

Other Hazards

Corrosive to metals (Category 1)

2.2 GHS Label elements

Pictogram(s)



Signal Word: Danger

SEWER SOLVENT

Hazard statements:

H261 In contact with water releases flammable gases.
 H290: Maybe corrosive to metals.
 H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H318: Causes serious eye damage.
 H332: Harmful if inhaled.
 H402: Harmful to aquatic life.

Precautionary statements - Prevention

P264: Wash thoroughly after handling.
 P273 Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements- Response

P301 + P310+: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
 P330 + P331 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P353
 P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351+: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.
 P338 + P310+ P363

Precautionary Statements – Storage

P403 + P235 +: Store in a well-ventilated place. Keep cool.
 P410 + P412: Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Precautionary Statements - Disposal

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

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: None known.**Section 3. Composition / Information on Ingredients**

Hazardous Ingredients	Concentration Range (%)	CAS number
Sodium Hydroxide	68-70	1310-73-2
Sodium Nitrate	15-17	7631-99-4
Aluminum Granules	8-10	7429-90-5

Balance of other ingredients is non-hazardous or less than 0.1%. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 4. First Aid Measures**4.1 Description of first aid measures****General**

Consult a physician. Show this safety data sheet to the doctor in attendance.
 Move out of dangerous area.

Eye

Immediately flush eyes with water for 15-20 minutes, while holding eyelids open.
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Seek medical attention at once.

Skin

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation

If breathed in, move person into fresh air. Consult a physician if breathing difficulty persists.

Ingestion

Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

4.2 Most important symptoms and effects, both acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

Section 5. Fire-Fighting Measures

5.1 Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry agent (carbon dioxide, dry chemical powder).

Unsuitable Extinguishing Media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Wear full protective clothing (chemical splash suit) and positive pressure self-contained breathing apparatus, MSHA/NIOSH approved or equivalent.

5.4 Further information

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

National Fire
Protection

Association (NFPA)

0 = None 4 = Extreme Hazard

Health:	3
Fire Hazard:	1
Reactivity:	0

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Methods and materials for containment and cleaning up

For small amounts: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations. Do not use saw-dust or other combustible substances as an absorbent during cleanup. For large amounts: Pump off product. Correctly dispose of recovered product immediately

6.3 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.4 Reference to other sections

See section 8 to personal protective protection and section 13 to waste treatment.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For precautions see section 2.2.

7.2 Conditions for safe storage, including and incompatibilities

Keep containers tightly closed in a cool, dry, well-ventilated area away from sunlight, and heat. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatibility - Strong Acids, and soft metals such as Aluminum.

7.3 Specific end use(s)

Apart from the uses referenced in section 1.2 no other specific uses are stipulated

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters

Ingredients with workplace control parameters

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	CAS-No.	Type	Value
Sodium Hydroxide	1310-73-2	Ceiling 2 mg/m ³	USA. ACGIH TLV USA, NIOSH REL
		Ceiling 2 mg/m ³	
Aluminum Granules	7429-90-5	Ceiling 10 mg / m ³	USA. ACGIH TLV

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

WEEL - Workplace Environmental Exposure Levels

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

8.2 Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Personal protective equipment

General Information

Provide eyewash, safety shower and washing facilities.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures

Do not smoke while handling/using product. Handle in accordance with good industrial hygiene and safety practice. Always wash hands before smoking, eating, drinking or using the toilet. Wash hands before breaks and at the end of workday. Wash contaminated clothing and other protective equipment before storage or re-use.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form:	Solid
	Color:	White / Red
b) Odor		Odorless
c) Odor Threshold		no data available
d) pH		14.0 Typical
e) Melting point/freezing point		no data available
f) Initial boiling point and boiling range		not applicable
g) Flash point closed cup		not applicable

h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available not applicable
k) Vapor pressure	no data available
l) Vapor density	no data available
m) Relative density	
n) Water solubility	soluble
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

9.2 Other information

VOC (Volatile Organic Compounds)	no data available
Molecular Weight	Mixture
Bulk Density	no data available

Section 10. Stability and Reactivity

10.1 Reactivity

Reacts violently with water if added too rapidly. .

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None under normal processing

10.4 Conditions to avoid

Avoid dust generation and provide for room ventilation during handling. Avoid breathing vapors, mist, fume or dust. Avoid contact with eyes, skin and clothing. Avoid contact with flammable and reducing material. Keep the containers closed when not in use.

10.5 Incompatible materials

When handling this product, avoid contact with aluminum, tin, zinc, and alloys containing these metals. Contact with these materials liberates flammable hydrogen gas. Do not mix strong acids without dilution and agitation to prevent violent or explosive reactions. Avoid contact strong oxidizing agents, strong acids, acid chlorides, and acid anhydrides.

10.6 Hazardous decomposition products

In the event of fire, decomposition products may include the following materials: nitrogen oxides, sodium nitrite, and sodium oxide.

Section 11. Toxicological Information

11.1 Likely Routes of exposure

Likely routes of exposure include: inhalation, eye and skin contact.

11.2 Signs and symptoms of exposure

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

11.3 Delayed and immediate effects/Chronic effects from short- and long-term exposure

Eye

Causes serious eye damage

Skin

Causes serious skin burns

Inhalation

Inhalation of dusts or mists can cause damage to the upper respiratory tract and to the lung tissue depending on severity of exposure. Effects can range from mild irritation of mucous membranes, severe pneumonitis and destruction of lung tissue.

Ingestion

Ingestion can cause damage to the mucous membranes, mouth and digestive system. Ingestion of product may result in death.

Chronic effects

No information available.

Respiratory or skin sensitization

Not a respiratory sensitizer. This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No information available.

Reproductive toxicity

No information available.

Specific target organ toxicity-single exposure

No information available.

Specific target organ toxicity-repeated exposure

No information available.

Aspiration hazard

No information available.

Additional Information

RTECS (Registry of Toxic Effects of Chemical Substances): None

11.4 Information on toxicological effects**Acute toxicity**

Ingredient	CAS No.	LD50-Oral, Rat	Inhalation, Rat	Dermal, Rabbit
Sodium hydroxide	1310-73-2	No data	No data	No data
Sodium Nitrate	7631-99-4	267 mg/Kg	No data	No data

11.5 Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC (International Agency for Research on Cancer): No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH (American Conference of Governmental Industrial Hygienists): No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP (National Toxicology Program): No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA (Occupational Safety and Health Administration): No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

12.1 Ecotoxicity

Ingredient	CAS No.	
Sodium Hydroxide	1310-73-2	LC50-Gambusia affinis (Mosquito fish)-125 mg/l-96 h
Sodium Nitrate	7631-99-4	LC50-Rainbow Trout 1658 mg/l (96 h)

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Other adverse effects

Slightly toxic to aquatic life.

Section 13. Disposal Considerations

13.1 Disposal Instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

13.2 Local disposal regulations

Dispose in accordance with all applicable regulations.

13.3 Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

13.4 Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

13.5 Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transportation Information

Land Transport (DOT)

14.1 UN number	1823
14.2 Proper Shipping Name:	Sodium Hydroxide, Solid Mixture
14.3 Transport Hazard Class:	8
14.4 Packing Group	II
14.5 Special Precautions for the user	No data

IATA (International Air Transport Association): No data

IMDG (International Maritime Dangerous Goods Code): No data

Section 15. Regulatory Information

SARA 302 Components

Sodium Hydroxide (1310-73-2) RQ = 1000 lbs. / 454 kg

SARA (311,312) Hazard Categories – 40 CFR 372.65

Acute (X) Chronic () Fire () Reactivity (X) Sudden Release of Pressure ()

SARA 313 Components

No data.

US State regulations**Massachusetts Right To Know Components**

Sodium hydroxide (CAS 1310-73-2)

Pennsylvania Right To Know Components

Sodium hydroxide (CAS 1310-73-2)

New Jersey Right To Know Components

Sodium hydroxide (CAS 1310-73-2)

California Right To Know Components

Sodium hydroxide (CAS 1310-73-2)

Florida Right To Know Components

Sodium hydroxide (CAS 1310-73-2)

Minnesota Right To Know Components

Sodium hydroxide (CAS 1310-73-2)

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.

Section 16. Other Information

Hazardous Material Information System (HMIS)
Health: 3
Fire Hazard: 1
Reactivity: 0
 0 = None 4 = Extreme

Personal Protective Equipment **B – Safety**
Safety Glasses, Gloves

SDS Issuing date: 1/17/2016

Version #: 02

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