

Safety Data Sheet

Section 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name: **EM-1**
Synonym: Water based cleaner-degreaser
Product Item No.: 17

1.2 Recommended use of the product and restrictions on use

Uses: Cleaner, Degreaser
Restrictions: Use with adequate ventilation
Product dilution: Product is 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:

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 4) H332
Acute toxicity, dermal (Category 4) H312
Serious Eye Damage (Category 1)

Environmental Hazards

Acute aquatic toxicity (Category 2)
Chronic aquatic toxicity (Category 3)

2.2 GHS Label elements

Pictogram(s)



Signal Word: Danger

Hazard statements:

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H318 Causes serious eye damage
 H336 May cause drowsiness or dizziness.
 H401 Toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash hands thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/ eye protection/ face protection.

Precautionary statements – Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ 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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 +P310 Call a POISON CENTER or doctor/ physician if you feel unwell.
 P312
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Precautionary statements – Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Substance/ Mixture: Mixture

Hazardous Ingredients	Concentration Range (%)	CAS number
Pentasodium Triphosphate	4 – 6	7758-29-4
Sodium Phosphate Tribasic	2 – 4	10101-89-0
Ethoxylated Alcohols	1 - 2	
Sodium Xylenesulfonate	3 - 6	1300-72-7
2-butoxyethanol	4 - 7	111-76-2

Balance of other ingredients is non-hazardous, proprietary, or less than value/concentration cut off limits for health and environmental hazard class. 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.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if breathing difficulty persists.

Ingestion

Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim drink two glasses of water to dilute material in the stomach. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration, rinse mouth and repeat administration of water. Get medical attention immediately.

Skin

Wash off with soap and plenty of water. Consult a physician if irritation persists.

Eye

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 15 minutes, while holding the eyelid(s) open. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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:

No data available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear full protective clothing (chemical splash suit) and positive pressure self-contained breathing apparatus.

5.4 Further information

Use water spray to cool unopened containers.

**National Fire
Protection**

Association (NFPA)

0 = None 4 = Extreme Hazard

Health: 2

Fire Hazard: 1

Reactivity: 0

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

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

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. This mixture is COMBUSTIBLE. Container explosion may occur under fire conditions. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including and incompatibilities

Store in a cool, dry, well-ventilated area away from sunlight, heat and ignition sources. 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.

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

Ingredients	CAS-No.	Type	Permissible	Basis
Pentasodium Triphosphate	7758-29-4	Ceiling	3 mg/m ³	USA, ACGIH TLV
Sodium Phosphate Tribasic	10101-89-0	TWA	10 mg/m ³	ACGIH
2-butoxyethanol	111-76-2	TWA PEL	20 ppm 50 ppm 240 mg/m ³	USA, AGGIH USA, OSHA

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

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

No protective equipment should be needed under normal use conditions.

Respiratory protection

No protective equipment should be needed under normal use conditions.

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:	Liquid
	Color:	Clear, yellow
b) Odor		Citrus, Lemon
c) Odor Threshold		no data available
d) pH		11.0 Typical
e) Melting point/freezing point		no data available
f) Initial boiling point and boiling range		212°F (100°C)
g) Flash point closed cup		No Flash to Boiling
h) Evaporation rate		no data available
i) Flammability (solid, gas)		no data available
j) Upper/lower flammability or explosive limits		no data available
k) Vapor pressure		no data available
l) Vapor density		no data available
m) Relative density		1.06 g/cm ³ at 25 °C (77 °F)
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)	<9% by weight
Molecular Weight	Mixture
Bulk Density	no data available

Section 10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid exposure to sources of ignition, and open flame.

10.5 Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents, Acid anhydrides, Aluminum, and Halogenated compounds.

10.6 Hazardous decomposition products

In the event of fire, decomposition products may include the following materials: carbon dioxide, carbon monoxide, phosphorous oxides. In the event of fire: see section 5.

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

Eye irritation signs and symptoms may include redness and pain.

Skin irritation signs and symptoms may include dryness and pain.

Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea, and loss of coordination.

Respiratory irritation signs and symptoms may include cough, drowsiness, headache, and sore throat.

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

Eye

Contact with eyes causes serious damage. Adverse symptoms may include the following: pain, watering, redness.

Skin

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

Inhalation

Inhalation of large amounts of this material may affect the respiratory system and mucous membranes (irritation).

Ingestion

Ingestion of this material may cause abdominal discomfort, nausea, and diarrhea.

Chronic effects

See additional information in section 11.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Reproductive toxicity

No known significant effects or critical hazards.

Specific target organ toxicity-single exposure

None known.

Specific target organ toxicity-repeated exposure

No data available

Aspiration hazard

No data 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
Pentasodium Triphosphate	7758-29-4			500 mg/24Hr. MOD
Sodium Phosphate Tribasic	10101-89-0	7400 mg/kg		>7940 mg/kg
Ethoxylated Alcohols		300 - 2000 mg/kg		
Sodium Xylenesulfonate 2-butoxyethanol	1300-72-7 111-76-2	7200 mg/kg 1300 mg/kg	>4.9 mg/l 3hr	>2,000 mg/kg 2,000 mg/kg

Skin corrosion/irritation test subject (Rabbit Skin)

Skin-Rabbit

Result: Non Irritant

Serious eye damage/eye irritation test subject (Rabbit Eye)

Eyes-Rabbit

Result: Severe irritant

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): 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)

ACGIH (American Conference of Governmental Industrial Hygienists): No component of this product 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 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 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.	
Ethoxylated Alcohols		LC50-Fish 1 -10 mg/l - 96 h Read-across (Analogy)
2-butoxyethanol	111-76-2	96hr LC50 (fish): 1474 mg/l (Oncorhynchus mykiss)
Sodium Xylenesulfonate		LC50-Oncorhynchus mykiss, >1000 mg/l - 96 h

12.2 Persistence and degradability

According to the results of tests of biodegradability this product is readily biodegradable.

12.3 Bioaccumulative potential

The potential for bioaccumulation is low.

12.4 Mobility in soil

This product is water soluble and will move readily in soil and water

12.5 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Acute aquatic hazard is possible.

Section 13. Disposal Considerations

13.1 Waste treatment methods

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.

Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Section 14. Transportation Information

Land Transport (DOT)

14.1 UN number

Not regulated

14.2 Proper Shipping Name: Not regulated
 14.3 Transport Hazard Class: Not Regulated
 14.4 Packing Group: Not Regulated
 14.5 Special Precautions for the user: Not Regulated

IATA (International Air Transport Association): No data
 IMDG (International Maritime Dangerous Goods Code): No data

Section 15. Regulatory Information

SARA 302 Components

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

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

2-Butoxyethanol (CAS 111-76-2)

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

US State regulations

Massachusetts Right To Know Components

2-butoxyethanol (CAS 111-76-2)

Pennsylvania Right To Know Components

2-butoxyethanol (CAS 111-76-2)

New Jersey Right To Know Components

2-butoxyethanol (CAS 111-76-2)

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 **Health:** 2
Information System **Fire Hazard:** 1
(HMIS) **Reactivity:** 0

0 = None 4 = Extreme

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

SDS Issuing date: 12/16/2016

Revision 1: 8/9/18

The information above includes data compiled from Safety Data Sheets from manufacturers' of each component of this product. Emtech Laboratories, Inc. believes the data contained herein are accurate. The data are not to be taken as warranty or representation for which Emtech Laboratories, Inc. assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be in accordance with applicable Federal, State and local laws and regulations.