

Safety Data Sheet

Section 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name: **EMPLATE**
Synonym: Plate Wash
Product Item No.: 88

1.2 Recommended use of the product and restrictions on use

Uses: Ink removal from hard surfaces
Restrictions: Do not mix with strong alkalis, or acids
Product dilution: Product is not to be diluted

1.3 Details of the supplier of the safety data sheet

Company: Emtech Laboratories, Inc.
580 S. Cemetery Street
Norcross, Georgia 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

Aspiration Toxicity (Category 1)
Skin Corrosion/Irritant (Category 2)
Skin Sensitization (Category 1)

Environmental Hazards

Hazardous to the aquatic environment –Chronic (Category 1)

Other Hazards

Flammable Liquid (Category 3)

2.2 GHS Label elements

Pictogram(s)



EMPLATE

Signal Word: Danger

Hazard statement(s):

H226: Flammable liquid and vapor.
 H304: May be fatal if swallowed and enters airway.
 H315: Causes skin irritation.
 H317: May cause an allergic reaction.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement - Prevention

P210: Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
 P273: Avoid release into the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement - Response

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water
 P332 + P313: If skin irritation occurs: Seek medical attention.
 P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
 P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER, doctor or physician.
 P331: Do Not induce vomiting.

Precautionary Statements – Storage

P403 + P235: Store in a well ventilated place. Keep cool.

Precautionary Statements - Disposal

P501: Dispose of contents and their containers in accordance with regional, national, and international regulations.

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
Terpene Hydrocarbon	50-70	5989-27-5
1-Methoxy-2-propanol	30 -50	107-98-2

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

Skin

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

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. DO NOT INDUCE VOMITING. 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.

Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.

4.2 Most important symptoms and effects, both acute and delayed

Important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. In addition, high doses may cause toxic effects such as CNS (Central Nervous System) depression (fatigue, dizziness, loss of concentration, with collapse, coma and death possible in cases of severe overexposure).

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:

No data available.

5.2 Special hazards arising from the substance or mixture

May cause allergic reaction

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

None available

**National Fire
Protection**

Association (NFPA)

0 = None 4 = Extreme Hazard

Health:	2
Fire Hazard:	3
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. For personal protection see section 8.

6.2 Methods and materials for containment and cleaning up

Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner equipped with a high efficiency filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing.

6.3 Environmental precautions

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled containers.

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. 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. 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 or alkali compounds and strong oxidizing agents may inactivate biological cultures.

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 Concentration	Basis
Terpene Hydrocarbon	5989-27-5	TWA	30 ppm	AIHA
1-Methoxy-2-propanol	107-98-2	TWA	100 ppm 150 ppm	USA, ACGIH USA, ACGIH

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

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:	Liquid
	Color:	Colorless
b) Odor		Orange Citrus
c) Odor Threshold		no data available
d) pH		N/A
e) Melting point/freezing point		no data available
f) Initial boiling point and boiling range		248°F (120°C)
g) Flash point closed cup		94°F (34.4°F)
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

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l) Vapor density	no data available
m) Relative density	0.860 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)	no data available
Molecular Weight	Mixture
Bulk Density	no data available

Section 10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None under normal processing

10.4 Conditions to avoid

Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Avoid long term exposure to air.

10.5 Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents.

10.6 Hazardous decomposition products

In the event of fire, decomposition products may include the following materials: carbon dioxide, and carbon monoxides. 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.

Inhalation may cause irritation of the nose, throat, and respiratory tract.

Repeated overexposure may cause fatigue, dizziness, and loss of concentration. This product may be fatal if swallowed and enters airway.

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

No information available.

Skin

No information available.

Inhalation

No information available.

Ingestion

No information available.

Chronic effects

No information available.

Respiratory or skin sensitization

No information available.

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
Terpene Hydrocarbon	5989-27-5	> 2 g/kg		> 5 g/kg
		LC50, Rat		
1-Methoxy-2-propanol	107-98-2	4016 mg/kg BWT	6500 PPM 6hours	

Skin corrosion/irritation test subject (Rabbit Skin)

Skin-Rabbit

No information available.

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

Eyes-Rabbit

No information available.

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.	Fish		
Terpene Hydrocarbon	5989-27-5	0.1 to 1.0 mg/L (per REACH dossier)		
		LC50 / 96 Hours Leucis cus idus	LC50 / 96 Hours Fathead minnow	LC50 / 96 Hours Rainbow Trout
1-Methoxy-2-propanol	107-98-2	6,182 mg/l (nominal)	20,800 mg/l (nominal)	> 1,000 mg/l (nominal)

12.2 Persistence and degradability

The organic components of the product are readily biodegradable.

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

This product is partially water soluble and will have limited movement in soil and water

12.5 Other adverse effects

No Known effect.

Section 13. Disposal Considerations

13.1 Waste treatment methods

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	UN 1993
14.2 Proper Shipping Name:	Compound Cleaning Liquid, N.O.S. (Orange Terpenes, 1-Methoxy-2-Propanol)
14.3 Transport Hazard Class:	Flammable
14.4 Packing Group	III
14.5 Special Precautions for the user	N/A

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

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard: Yes, Chronic Health Hazard: No, Fire: Yes, Reactivity: No

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

1-Methoxy-2-propanol (CAS 107-98-2)

Pennsylvania Right To Know Components

1-Methoxy-2-propanol (CAS 107-98-2)

New Jersey Right To Know Components

1-Methoxy-2-propanol (CAS 107-98-2)

CWA (Clean Water Act)

Marine Pollutant

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: 2**Fire Hazard:** 3**Reactivity:** 0

0 = None 4 = Extreme

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

SDS Issuing date: 03/18/2016

The information above includes data compiled from Safety Data Sheets from manufactures' 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.