

PowerSolve Masonry Cleaner SB -- PS-107

Section 1. Supplier Information

CMI Chemical Corporation
12336 Emerson Drive
Brighton, MI 48116
(248) 587-5600
Emergency Telephone: 1-800-424-9300

Section 2. Hazardous Ingredients

<u>Hazardous Component(s)</u>	<u>CAS #</u>	<u>PEL TWA</u>	<u>PEL Ceiling</u>	<u>TLV TWA</u>	<u>TLV STEL</u>	<u>MFG Limits</u>	<u>WGT %</u>
Alkylphenol ethoxylate	Proprietary	N/E	N/E	N/E	N/E	N/E	1 - 10
Alcohol ethoxylate, secondary	Proprietary	N/E	N/E	N/E	N/E	N/E	1 - 10
d-Limonene	5989-27-5	N/E	N/E	N/E	N/E	N/E	85 - 95

N/A = Not Applicable; N/E = Not Established; * = Mists; # = Skin; ' = Respirable Dust; " = Total Dust; ^ = Vapor; ** = Fumes; C = Ceiling Limit

All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL), or are exempt from the listing.

Section 3. Hazards Identification

Primary Routes of Entry

Inhalation: YES
Skin: YES
Ingestion: NO

Hazardous Materials Information System (HMIS) Ratings

Health: 1
Fire: 2
Reactivity: 0
0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe
* = Chronic Hazard

Signs of Symptoms of Exposure:

INHALATION: Vapors are irritating to the nose, throat, and respiratory tract, and may produce headache and nausea in areas of poor ventilation.

SKIN: Material is mildly irritating to the skin. Prolonged or repeated contact may cause defatting and drying of the skin, resulting in irritation and dermatitis.

EYES: Vapors are slightly uncomfortable. Splashes can be irritating, will cause painful burning or stinging of eyes and lids, watering of eyes and inflammation of conjunctiva.

INGESTION: Ingestion of large amounts causes gastric disturbances. Nausea and vomiting may result.

Chemical Listed as Potential Carcinogens:

NTP: NO

IARC: NO

OSHA: NO

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Target Organs: Eyes, skin, and respiratory system.

Section 4. Emergency And First Aid Procedures

INHALATION: If adverse effects such as dizziness, nausea, or irritation are noted, move person to fresh air. If not breathing, give artificial respiration. Get medical attention!

SKIN: Immediately wash skin with large amounts of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

EYES: Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

INGESTION: If swallowed, dilute with water. Never give fluids if the victim is unconscious or having convulsions. Contact a physician immediately!

Section 5. Fire Fighting Measures

Flash Point: 115 ° F (minimum)

Method Used: Tagliabue Closed Cup

Flammable Limits in Air % by Volume: LEL: 0.7 UEL: 6.1; for d-Limonene.

Extinguisher Media: Carbon dioxide, dry chemical, foam. **DO NOT USE WATER!**

Special Fire Fighting Procedures: Firefighters should wear a self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode, and protective clothing.

Unusual Fire And Explosion Hazards: Product is combustible. Keep away from heat, sparks, and open flames.

Section 6. Accidental Release Measures

If material is spilled, eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area; place in closed containers for disposal. Ventilate confined spaces. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Continue to observe precautions for volatile, combustible vapors from absorbed material.

CERCLA (Superfund) Reportable Quantity (in lbs None.

Section 7. Handling and Storage

Handling: Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.

Storage: Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels.

Other: **CAUTION!** Do not use cutting or welding torches on containers, even when empty. Containers, even those that have been emptied, will retain product residue and vapors. Do not reuse container without recycling or reconditioning. Handle empty containers as if they were full.

Section 8. Exposure Controls and Personal Protection

Respiratory Protection: Not required under normal conditions of use.

Local Exhaust: None normally required. Local exhaust may be needed under special circumstances such as poorly ventilated areas, evaporation from large surfaces, spraying, heating, etc.

Mechanical Exhaust: Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.

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Protective Gloves: Wear chemical resistant gloves.

Eye Protection: Safety glasses with side shields. Do NOT wear contact lenses. Chemical goggles and/or faceshield should be worn where splashing is possible.

Other Protection: Eye wash and safety shower should be readily available. Wear a chemical resistant apron and boots where splashing is possible.

Hygienic Practices: Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer. Do not eat, drink, or smoke while using this product. Wash hands prior to eating, drinking, smoking, or using restrooms. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work shift.

Section 9. Physical and Chemical Properties

Boiling Point: 310 ° F

Specific Gravity (H₂O=1): 0.84-0.85

Vapor Pressure (mm Hg): > 1

Vapor Density (air=1) > 1

Solubility in Water: Negligible.

Reactivity in Water: None.

Weight per Gallon (lb/gal): 7.0 - 7.1 lbs/gal

% Volatile by Volume: 93-94%

% Solid by Weight: 6-7%

Appearance and Odor: Clear, thin liquid with a citrus odor.

Theoretical VOC: 6.5 - 6.6 lbs/gal
(>0.1 mm Hg @ 20 ° C)

Analytical VOC : 6.5 - 6.6 lbs/gal
(EPA method 24)

pH: N/A; product is solvent based.

Degree of water solubility:
Negligible = Less than 0.1%
Slight = 0.1% - 1%
Moderate = 1% - 10%
Appreciable = More than 10%
Complete = 100%

Section 10. Stability and Reactivity

Stability: Stable. Hazard Polymerization: Will not occur.

Conditions to Avoid: COMBUSTIBLE! Keep from heat, sparks, or open flame.

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids including acidic clays, peroxides, halogens, vinyl chloride, and iodine pentafluoride. Do not store in plastic containers.

Hazardous Decomposition Products: Various organic compounds and oxides of carbon.

Section 11. Toxicological Information

Alkylphenol ethoxylate

ACUTE TOXICITY Oral LD50 (rat) > 5.0 g/kg Eye Irritation (rabbit, Draize) : No effect - 13 (110)
Dermal LD50 (rat) > 2.0 g/kg Skin Irritation (rabbit, Draize) : Slight - 1.8 (8.0)
Inhalation LC50 no data Skin sensitization : not determined
[7,20-18,13,E,A-021297]

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Secondary alcohol ethoxylate

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS In studies with rabbits sustained occluded contact of undiluted surfactant can cause inflammatory changes in the lung. [20,2-19,B,F,18,D,18-091500]

d-Limonene [CASRN 005989-27-5]

ACUTE TOXICITY

Oral LD50 (rat) > 5g/kg Eye irritation (rabbit): Severely irritating.
Dermal LD50 (rabbit) > 5 g/kg Dermal irritation (rabbit): Severely irritating.
Oral TDLO (mouse) = 67 mg/kg/39w-l:ETA
IPR TDLO (mouse) = 4800 mg/kg/8w-l:ETA

CHRONIC EFFECTS: Prolonged or repeated exposure can cause drying, defatting, and dermatitis of skin. d-limonene is NOT listed as carcinogenic by OSHA, NTP, IARC or ACGIH. FDA and WHMIS list d-limonene as GRAS -"generally recognized as safe". [5,2-3,11-031197] ; 15,3-3,11-0198

Section 12. Ecological Information

Alkylphenol ethoxylate

Biodegradation: Alkylphenol ethoxylate (APE) surfactants have been observed in a variety of laboratory test systems. In general, both primary and ultimate biodegradation rates decreased with increasing ethoxylate chain length. Primary biodegradation, under laboratory conditions typically exceeds 90% within 28 days. Ultimate biodegradation, as measured by Chemical Oxygen Demand (COD) or Dissolved Organic Carbon (DOC) has been observed to reach 89% in 7 days. Ultimate biodegradation of APE surfactants under anaerobic conditions does occur, but at a significantly slower rate. Field studies indicate that APE surfactants undergo primary and ultimate degradation at wastewater treatment plants where removal rates could exceed 95%. The reported concentrations of APE in wastewater sludge from different sources within the US range from 3.9 to 120 mg/kg dry weight. Aerobic degradation in the soil can reach over 80% within a month. [18,19-12,K-030900]

Secondary alcohol ethoxylate

ECOTOXICITY 96 hr LC50 (fathead minnow) = 4.4 - 5.5 mg/L IC50 (bacteria) > 5,000 mg/L
48 hr LC50 (daphnia magna) = 2.6 - 3.7 mg/L

FATE Theo. Oxy. Demand (ThOD) = 2.36 mg/mg BOD-Day 5 = 21-37% BOD-Day 10 = 40-51% BOD-Day 20 = 66-71% [20,2-19,B,F,18,D,18-091500]

d-Limonene [CASRN 005989-27-5]

Ecotoxicological Information: Product may be toxic to aquatic organisms. [5,2-3,11-031197]

Section 13. Disposal Considerations

Waste Disposal Methods (Federal, State, Local):

In accordance with all federal, state and local requirements.

RCRA Hazardous Waste Number: D001

Section 14. Transport Information

Hazardous Material Description:

(Proper shipping name, hazard class, hazard ID#, packing group)

Domestic ground non-bulk: NOT REGULATED

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Domestic ground bulk:	TERPENE HYDROCARBONS, N.O.S., COMBUSTIBLE LIQUID, UN2319, PG III (D-LIMONENE)
International:	TERPENE HYDROCARBONS, N.O.S., 3, UN2319, PG III (D-LIMONENE)

Section 15. Regulatory Information

SARA 313 Information This product contains the following chemical(s) above de minimis concentrations and may be subject to reporting under section 313:
Reportable Category: Certain glycol ethers, 2 % (max).

Section 16. Other Information

This MSDS contains revisions in the following sections: New format

Prepared by: John A. DiCerbo, IHIT Regulatory & Safety Coordinator

Revised by: Andrew J. Thomas Chemist

The development of this Material Safety Data Sheet (MSDS) relies upon information provided to us by each of our raw material suppliers. This MSDS will be updated as changes occur to their MSDS(s). We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.