

MATERIAL SAFETY DATA SHEET

Rev. 3 3/22/2012

Plexus Plastic Cleaner Protectant & Polish

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Plexus Plastic Cleaner Protectant & Polish
SYNONYMS:

MANUFACTURER: B.T.I. Chemical Co., Inc.
ADDRESS: 638 Lindero Canyon Rd #371, Oak Park CA 91377

EMERGENCY PHONE: 800-405-6495

CHEMICAL FAMILY: emulsion-based plastic cleaner

PRODUCT USE: plastic cleaning, polishing, and protection

SECTION 2: COMPOSITION/INFORMATION ON HAZAROUS INGREDIENTS

INGREDIENTS:

IDENTITY	CAS Number	QUANTITY Weight %	Exposure Limits in Air			
			ACGIH-2009 TLV (TWA)	OSHA PEL (TWA)	CalOSHA PEL (TWA)	CalOSHA STEL
Aliphatic petroleum distillates	64742-89-8	23	250 ppm (as VM&P naphtha)	Not established	300 ppm (as VM&P naphtha)	400 ppm (as VM&P naphtha)
Isobutane	75-28-5	12	1000 ppm	Not established	800 ppm	Not established
Propane	74-98-6	3	1000 ppm	Not established	1000 ppm	Not established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This self-pressurized aerosol product is an emulsion of cleaning and polishing agents, and contains aliphatic petroleum distillates. The propellant system is isobutane and propane. The primary hazard of this product is flammability. The petroleum distillate in the product may be harmful or fatal if swallowed, if aspirated into the lungs.

HMIS HAZARD CLASSIFICATION:

HEALTH: 1

FLAMMABILITY: 3

REACTIVITY: 0

OSHA HEALTH HAZARD CLASSIFICATION: Irritant

OSHA PHYSICAL HAZARD CLASSIFICATION: Flammable

ROUTES OF ENTRY: skin, eyes, inhalation, ingestion

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation, redness, tearing, blurry vision.

SKIN: May cause skin irritation, defatting, dermatitis.

INGESTION: Nausea, vomiting, diarrhea; vomiting may cause aspiration of the petroleum distillates into the lungs, which may be harmful or fatal.

INHALATION: May be irritating to mucous membranes and upper respiratory tract; CNS effects are expected if vapors are concentrated and deliberately inhaled.

ACUTE HEALTH HAZARDS: Contains aliphatic petroleum distillates; swallowing product will result in vomiting and aspiration of the solvent into the lungs, which may result in server lung damage or death. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

CHRONIC HEALTH HAZARDS: sensitization dermatitis; respiratory sensitization; gastrointestinal distress

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: disorders of the following organs or organ systems that may be aggravated by significant exposure to the petroleum distillates in this product include: skin, respiratory system, liver, kidneys, central nervous system (CNS)

CARCINOGENICITY: This product contains no listed carcinogens according to IARC, ACGIH, NTP, and/or OSHA in concentrations of 0.1 percent or greater.

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SECTION 4: FIRST AID MEASURES

EYES: Rinse eyes thoroughly with water for at least 15 minutes, get medical attention.

SKIN: Wash with cool water and a mild detergent. Get medical attention for rash, irritation, dermatitis.

INHALED: Remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

INGESTION: Do not induce vomiting. Get medical attention immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

Contains petroleum distillates, which present a significant aspiration and chemical pneumonitis hazard if swallowed. Do not induce vomiting. Consider activated charcoal and/or gastric lavage. If necessary, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

Inhalation overexposure can produce toxic effects. Monitor for respiratory distress. If cough or difficulty breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted ventilation, as required.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: 9%
(% BY VOLUME) **LOWER:** 0.9%

FLASH POINT: emulsion: 59 °F (15° C) (TCC) (of the emulsion); propellant: flammable gas, flashpoint <<32 °F (<<0 °C)

AUTOIGNITION TEMPERATURE: 450 °F (232 °C) (emulsion)

NFPA HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 3 **REACTIVITY:** 0 **OTHER:** n/a

EXTINGUISHING MEDIA: small fire: dry chemicals, carbon dioxide, foam, water fog, inert gas (nitrogen); large fire: foam, water fog, water spray; do NOT use a solid stream of water directly on the fire, as the water may cause the fuel to spread to a larger area

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full face-piece operated in positive pressure demand mode; cool uninvolved containers to prevent bursting.

UNUSUAL FIRE AND EXPLOSION HAZARDS: product vapors are heavier than air; flash point is sub-ambient; keep away from all ignition sources

HAZARDOUS DECOMPOSITION PRODUCTS: carbon dioxide, carbon monoxide, oxides of nitrogen and silicon, smoke, soot, unburned hydrocarbons

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Surfaces will be slippery where product is spilled. Eliminate all ignition sources. Adsorb spill with inert material such as sand, soil, vermiculite. Scoop up solids. Sweep up. Transfer to containers for disposal.

Small quantities: wipe up with inert adsorbent material (paper towels, newspaper) and transfer to waste container.

SECTION 7: HANDLING AND STORAGE

HANDLING: Shake well before use; use only as directed; avoid contact with skin, face, eyes; do not swallow; keep from reach of children; do not smoke during product use.

STORAGE: Store in a cool dry area away from direct sunlight. Do not smoke in storage area...

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION and ENGINEERING CONTROLS: Use mechanical ventilation or use in a large open area to maintain petroleum distillate vapors below TLV.

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RESPIRATORY PROTECTION: NIOSH/MSHA-approved air-supplied respirator is required where petroleum distillate vapors exceed TLV.

EYE PROTECTION: Goggles are recommended

SKIN PROTECTION: Resistant gloves such as nitrile rubber or neoprene are recommended

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Not required for normal use in the plastic-cleaning context. In the manufacturing environment, impervious clothing and boots are recommended to prevent exposure from large spills.

WORK HYGIENIC PRACTICES: Wash hands with soap and water after handling this product. Avoid direct contact with skin and eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES of EMULSION

APPEARANCE: white to off-white creamy emulsion with lemon odor in an aerosol can

ODOR: lemon

PHYSICAL STATE: liquid emulsion

pH of EMULSION: 7.6

BOILING POINT of EMULSION: 190 °F (88 °C)

FREEZING POINT of EMULSION: 43 °F (6 °C)

VAPOR PRESSURE (mmHg): not determined

VAPOR DENSITY of EMULSION (AIR = 1): 1.4

SPECIFIC GRAVITY of EMULSION (H₂O = 1): 0.91

EVAPORATION RATE of EMULSION (Butyl Acetate = 1): 1

SOLUBILITY of EMULSION IN WATER: negligible

VISCOSITY of EMULSION: not determined

VOLATILE ORGANIC COMPOUNDS (VOC) of AEROSOL PRODUCT:

40CFR59 Subpart C or CARB Method 310 (calculated): 39 percent by weight

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable. Emulsion separates into two phases upon standing; shaking restores emulsion.

CONDITIONS TO AVOID (STABILITY): not applicable

INCOMPATIBILITY (MATERIAL TO AVOID): ignition sources, excessive heat, strong oxidizing agents such as peroxides, permanganates, nitrates, nitrites, chlorine gas

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: thermal decomposition will evolve petroleum decomposition products, steam, and oxides of carbon, nitrogen, and silicon

HAZARDOUS POLYMERIZATION: does not occur

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Non-toxic, per 16CFR1500 (CPSC Federal Hazardous Substances Act): no mortalities were observed at an oral dose of 5000 mg/kg in the FHSA Acute Oral Toxicity Screen (report date 02/21/1995, private laboratory study).

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not established for this formulated product.

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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of the liquid product in accordance with Federal, State, and Local regulations as a hazardous waste. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

RCRA HAZARD CLASS: Large quantities of this product are a RCRA hazardous waste; the hazard class is ignitability.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (US DOT):

Proper Shipping Name: Consumer Commodity
Hazard Class: ORM-D

MARITIME TRANSPORT ORGANIZATION IMDG:

IMDG Class: 2.1
Packing Group: 2
Page: 2102
UN Number: 1950 (Aerosols)
Proper Shipping Name: Aerosol Product (in limited quantities)

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

All ingredients in this product are in compliance with US TSCA Chemical Substance Inventory Requirements.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Reportable Quantity of spilled product ("Ignitable substance") is 100 pounds, per 40CFR302.5(b)

SARA 311/312 HAZARD IDENTIFICATION:

Reportable quantity of stored product ("Fire Hazard") is 1000 pounds and greater, per 40CFR370.2

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:

This plastic cleaning product, packaged, used and stored as an aerosol consumer cleaning product, is exempt from all toxic chemical release reporting requirements, per 40CFR372.38(a) and (c).
In the manufacturing environment, this product is exempt from toxic chemical release reporting requirements because it contains no 40CFR372 Subpart D toxic chemicals above the *de minimus* levels.

STATE REGULATIONS:

California Proposition 65: This product may contain the following chemicals known in the State of California to cause cancer:
benzene (<0.03%); NSRL= 13 µg/day inhaled, 6.5 µg /day oral

California Proposition 65: This product may contain the following chemicals known in the State of California to cause reproductive or developmental harm:
benzene (<0.03%); MADL= 49 µg/day inhaled, 24 µg/day oral
toluene (<0.03%); MADL= 13000 µg/day inhaled; 7000 µg/day inhaled

New Jersey Right to Know: Contains solvent naphtha CAS #64742-89-8

Pennsylvania Right to Know: Contains aliphatic petroleum distillates CAS #64742-89-8

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SECTION 16: OTHER INFORMATION

REFERENCES:

29 CFR 1910 (OSHA)
40 CFR 300-399 (EPA)
40 CFR 59 Subpart C (EPA Consumer Products VOC Regulations)
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents
California Code of Regulations: Title 8, Div 1, Ch 4, Subchapter 7, Group 16 (PEL and STEL for Air Contaminants)
Hawley's Condensed Chemical Dictionary
International Agency for Research on Cancer (IARC) monograph search
NIOSH Pocket Guide to Chemical Hazards
National Toxicology Program (NTP) status search
Proposition 65 Status Report on No Significant Risk Levels for Carcinogens and Maximum Allowable Dose Levels for Chemicals Causing Reproductive Toxicity
The Registry of Toxic Effects of Chemical Substances
The Merck Index

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REVISION HISTORY:

Rev. 0: 1/5/1994, original OSHA MSDS;
Rev. 1: 11/16/2007: updated to include 16 sections ;
Rev. 2: 10/25/2010: reviewed for content compliance to current OSHA requirements, updated current TWA values, corrected typos
Rev. 3: 3/22/2012: reviewed for content compliance to current OSHA requirements

DISCLAIMER: The information contained in this MSDS is based on technical data and test results believed to be accurate at the time of preparation. The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BTI Chemical Co., Inc. and the MSDS preparer shall not be held liable for any damage resulting from handling or from contact with the product. License is granted to make unlimited paper copies of this MSDS for internal use only.