

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Plexus Plastic Cleaner Protectant & Polish

Product. No: 20207, 20214X, 20205

Specification No:

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Print date: 11 May 2012

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

1.1.1 Trade name/designation:

Plexus Plastic Cleaner Protectant & Polish

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses:

Plastic cleaning, polishing, and protection

1.2.2 Uses advised against:

All others not listed above

1.3 Details of the supplier

1.3.1 Supplier:

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

1.4 Emergency Telephone Number

800-405-6495

20205 .42oz
20207 7oz
20214X 13oz

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

F+, N, Xi, Xn

2.1 Label elements

2.2.1 Labeling according to Regulation (EC) No 1272/2008

Product identifier:

Plexus Plastic cleaner Protectant & Polish

Hazard pictograms:



F+



N



Xi



Xn

Signal word:

Danger

Hazard statements:

R12, R38, R45, R46, R51/53, R62, R65, R67

Precautionary statements:

S2, S9, S16, S23, S24, S29, S33, S36/37, S43, S45, S51, S53, S61, S62

2.3 Other hazards

Adverse human health effects and symptoms:

Eyes: May cause irritation, redness, tearing, and blurry vision.

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Skin: May cause skin irritation, de-fatting, 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 severe 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

Section 3: Composition/information on ingredients

3.1 Description of the mixture:

CAS No	EC No	% [weight]	Name	Classification according to 67/548/EEC
64742-89-8	265-192-2	23	Aliphatic petroleum distillates	F+, N, Xi, Xn; R12, R38, R45, R46, R51/53, R62, R65, R67; S2, S23, S24, S29, S36/37, S43, S45, S51, S53, S61, S62
75-28-5	200-857-2	12	Isobutane	F+; R12; S2, S9, S16, S33
74-98-6	200-827-9	3	Propane	F+; R12; S2, S9, S16, S33

Section 4: First Aid Measures

4.1 Description of first aid measures

4.1.1 General information:

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, and Central Nervous System (CNS)

4.1.2 Eye contact:

Rinse eyes thoroughly with water for at least 15 minutes; get medical attention.

4.1.3 Inhalation:

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

4.1.4 Skin contact:

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

4.1.5 Ingestion:

Do not induce vomiting. Get medical attention immediately.

4.1.6 Notes for the doctor:

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.

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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: Firefighting measures

- 5.1 Extinguishing media:
 - 5.1.1 Suitable extinguishing media:
 - Small Fire: dry chemicals, carbon dioxide, foam, water fog, inert gas (nitrogen)
 - Large Fire: foam, water fog, water spray
 - 5.1.2 Unsuitable extinguishing media:
 - 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.
- 5.2 Special hazards arising from the substance or mixture
 - 5.2.1 Hazardous combustion products:
 - Carbon dioxide, Carbon monoxide, Oxides of nitrogen and silicon, Smoke, Soot, Unburned hydrocarbons
- 5.3 Advice for fire-fighters:
 - Wear self-contained breathing apparatus with full face-piece operated in positive pressure demand mode; cool uninvolved containers to prevent bursting.
- 5.4 Additional information:
 - Product vapors are heavier than air; flash point is sub-ambient; keep away from all ignition sources.

Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 - 6.1.1 For emergency responders
 - Personal protective equipment:
 - See Section 8
- 6.2 Environmental precautions:
- 6.3 Methods and material for containment and cleaning up
 - 6.3.1 For containment:
 - 6.3.2 For cleaning up:
 - Large Spills:
 - Surfaces will be slippery where product is spilled. Eliminate all ignition sources. Absorb spill with inert material such as sand, soil, or vermiculite. Scoop up solids. Sweep up. Transfer to containers for disposal.
 - Small Spills:
 - Wipe up with inert absorbent material (paper towels, newspaper) and transfer to waste container.
- 6.4 Additional information:

Section 7: Handling and storage

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7.1 Precautions for safe 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.

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

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Storage class:

2B: Pressurized gas packages (aerosol containers)

Section 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No	Limit value	Monitoring and observation processes
TWA(ACGIH) TWA(OSHA) TWA(CALOSHA) STEL(CALOSHA)	Aliphatic petroleum distillates		64742-89-8	250 ppm Not Established 300 ppm 400 ppm	
TWA(ACGIH) TWA(OSHA) TWA(CALOSHA) STEL(CALOSHA)	Isobutane		75-28-5	1000 ppm Not Established 800 ppm Not Established	
TWA(ACGIH) TWA(OSHA) TWA(CALOSHA) STEL(CALOSHA)	Propane		74-98-6	1000 ppm Not Established 1000 ppm Not Established	

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Use mechanical ventilation or use in a large open area to maintain petroleum distillate vapors below TLV.

8.2.2 Personal protective 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.

8.2.2.1 Eye/Face protection:

Goggles are recommended.

8.2.2.2 Skin protection:

Resistant gloves such as nitrile rubber or neoprene are recommended.

8.2.2.3 Respiratory protection:

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

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Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Physical state: Liquid emulsion Color: White to off-white creamy emulsion Odor: Lemon

9.1.2 Safety relevant basic data

pH (20 °C): 7.6
Melting point/range(°C): 6
Initial boiling point/range (°C): 88
Decomposition temperature (°C): No Data
Flash point (°C): 15 (emulsion) <<0 (Propellant)
Ignition temperature (°C): 232
Vapor pressure (hPa) at °C: Not Determined
Vapor density (air = 1): 1.4
Density (g/cm³) at °C: No Data
Bulk density (kg/m³): No Data
Water solubility (20°C in g/l): Negligible
Solubility(ies): No Data
Partition coefficient: No Data
N-Octanol/Water (log Po/w): No Data
Viscosity, dynamic (mPa s): Not Determined

9.1.3 Physical hazards: Flammable aerosols

9.2 Other safety information:

Properties of explosive atmospheres (mixtures):

Gases and vapors: No Data

Dusts: No Data

Physical chemical properties of nanoparticles: No Data

Limiting oxygen concentration: No Data

Bulk density: No Data

Solubility in different media: No Data

Stability in organic solvents and identity of relevant degradation products: No Data

Evaporation rate: No Data

Conductivity: No Data

Surface tension: No Data

Dissociation constant in water (pKa) No Data

Oxidation-reduction Potential: No Data

Fat solubility (solvent – oil to be specified): No Data

Critical temperature: No Data

Section 10: Stability and reactivity

10.1 Reactivity:

Not Reactive

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions

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- Hazardous reactions will not occur
- 10.4 Conditions to avoid:
Contact with incompatible materials.
- 10.5 Incompatible materials:
Ignition sources, Excessive heat, Strong oxidizing agents such as peroxides, Permanganates, Nitrates, Nitrites, Chlorine gas
- 10.6 Hazardous decomposition products:
Thermal decomposition will evolve petroleum decomposition products, steam, and oxides of carbon, nitrogen, and silicon.

Section 11: Toxicological Information

- 11.1 Information on toxicological effects:
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 data 02/21/1995, private laboratory study).
- 11.2 Other information:
- 11.2.1 Routes of exposure:
Skin, Eyes, Inhalation, Ingestion
- 11.2.2 In case of ingestion:
Do not induce vomiting. Get medical attention immediately.
- 11.2.3 In case of skin contact:
Wash with cool water and a mild detergent. Get medical attention for rash, irritation, dermatitis.
- 11.2.4 In case of inhalation:
Remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get medical attention.
- 11.2.5 In case of eye contact:
Rinse eyes thoroughly with water for at least 15 minutes, get medical attention.

Section 12: Ecological information

- 12.1 Toxicity:
Aquatic toxicity
Not established for this formulated product.

Section 13: Disposal considerations

- 13.1 Waste treatment methods
- 13.1.1 Product/packaging disposal:
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 Systems (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.
- 13.1.2 Waste codes/waste designations according to EWC/AVV:
20 01 27*
- 13.2 Additional information:

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Large quantities of this product are a RCRA hazardous waste; the hazard class is ignitability. Any waste marked with an asterisk (*) is considered as a hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

Section 14: Transport Information

- 14.1 Land transport (CFR 49: DOT)
UN-No: 1950
Proper shipping name: Aerosols Flammable (Each not exceeding 1L capacity)
Class(es): 2.1
Packing group: -
Hazard label(s): 2.1
Special provision(s): N82
Exception: 306
- 14.2 Land transport (ADR/RID/GGVSE):
UN-No: 1950
Proper shipping name: Aerosols, Flammable
Class(es): 2
Classification Code: 5f
Packing group:
Hazard label(s): 2.1
Special provision(s): 190, 327, 344, 625
- 14.3 Sea transport (IMDG-Code/GGVSee):
UN No: 1950
Proper shipping name: Aerosols, Flammable
Class(es): 2.1
Packing group:
Marine Pollutant: No
Special provision(s): 63, 190, 277, 327, 344, 959
- 14.4 Air transport (ICAO-IATA/DGR):
UN No: 1950
Proper shipping name: Aerosols, Flammable
Class(es): 2.1
Packing group:
Special provision(s): A145, A167, A802

Section 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture
- 15.1.1 National regulations (US):
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:

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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

15.1.2

National regulations (EU):

European Classification:

F+, N, Xi, Xn

Risk Phrases

R12, R38, R45, R46, R51/53, R62, R65, R67

Safety Phrases

S2, S9, S16, S23, S24, S29, S33, S36/37, S43, S45, S51, S53, S61, S62

Section 16: Other Information

16.1

Relevant R-, H- and EUH-phrases (number and full text):

F+: Extremely flammable

N: Dangerous for the environment

Xi: Irritant

Xn: Harmful

R12: Extremely flammable.

R38: Irritating to skin.

R45: May cause cancer.

R46: May cause heritable genetic damage.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62: Possible risk of impaired fertility.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapors may cause drowsiness and dizziness.

S2: Keep out of the reach of children.

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition – No smoking.

S23: Do not breathe gas/fumes/vapor/spray.

S24: Avoid contact with skin.

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S29: Do not empty into drains.

S33: Take precautionary measures against static discharges.

S36/37: Wear suitable protective clothing and gloves.

S43: In case of fire, use dry chemicals, carbon dioxide, foam, water fog, inert gas, water spray. Never use a solid stream of water directly on the fire.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S51: Use only in well-ventilated areas.

S53: Avoid exposure – obtain special instructions before use.

S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16.2 Further information:

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.