

GHS SAFETY DATA SHEET

Date Revised: JUN 2012 Supersedes: FEB 2012

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PLASTRUCT BONDENE CEMENT (BOND-2)

MANUFACTURER: Smarter Adhesive Solutions

600 Ellis Road, Durham, NC 27703

P.O. Box 12729, Research Triangle Park, NC 27709

Tel. 919-598-2400

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, 813-248-0585 (International)

Medical: Tel. 800.451.8346, 760.602.8703 3E Company (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health		Environmental		Phys	Physical	
	Acute Toxicity: Skin Irritation: Skin Sensitization: Eye:	Category 4 Category 3 NO Category 2	Acute Toxicity: Chronic Toxicity:	None Known Category 3	Flammable Liquid	Category 2



GHS LABEL:







Signal Word: Danger

WHMIS CLASSIFICATION: CLASS D, DIVISION 1B CLASS D, DIVISION 2A

Hazard Statements

H225: Highly flammable liquid and vapour

H319: Causes serious eye irritation

H320: Causes eye irritation

H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer

EUH066: Repeated exposure may cause skin dryness or cracking

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P280: Wear protective gloves/protective clothing/eye protection/face protection

P337+P313: Get medical advice/attention

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

P501: Dispose of contents/container in accordance with local regulation

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION	
			Pre-registration Number	% by Weight	
Methylene Chloride*# (Dichloromethane)	75-09-2	200-838-9	17-2119926076-39-0000	30 - 60	
Methyl Acetate	79-20-9	201-185-2	17-2119926085-40-0000	30 - 45	

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

* Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.

Skin contact: Wash skin with soap and water. If irritation develops, get medical attention

Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.

Ingestion: Do not induce vomiting. Seek medical advice immediately.

SECTION 5 - FIREFIGHTING MEASURES

Water fog or fine spray, carbon dioxide, **NFPA** Suitable Extinguishing Media: **HMIS** 0-Minimal dry chemical or foam. Health 1-Slight 2 Unsuitable Extinguishing Media: Dry chemical powder. Flammability 3 2-Moderate 3 Inhalation and dermal contact. Exposure Hazards: Reactivity 3-Serious Combustion Products: Hydrogen chloride, trace amounts of chlorine, 4-Severe

phosgene.

Protection for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Clear all personnel from area. Do not breathe vapors. Ventilate area of leak or spill. Wear protective equipment positive pressure self contained or air supplied breathing apparatus. Follow confined space entry procedures.

Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.

Methods for Cleaning up: Mop or soak up immediately. Place in properly labeled metal containers.

Materials not to be used for clean up: Zinc, Aluminum or plastic containers



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SECTION 7 - HANDLING AND STORAGE

Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Do not swallow. Use with adequate ventilation. Handling:

Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Vapors of this product are heavier than air and will

collect in low areas.

Do not eat, drink or smoke while handling. Store in a dry place. Keep container tightly closed when not in use. Store below 80°F (27°C).

Follow all precautionary information on container label, product bulletins and solvent bonding literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Storage:

CGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
50 ppm 200 ppm	N/E 250 ppm	25 ppm 200 ppm	125 N/E
		50 ppm N/E	50 ppm N/E 25 ppm

Provide general and/or local exhaust ventilation to control airborne levels below he exposure guidelines. **Engineering Controls:**

Lethal concentrations may exist in areas with poor ventilation

Maintain breathing zone airborne concentrations below exposure limits. Monitorina:

Personal Protective Equipment (PPE):

Eve Protection: Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

Prevent contact with the skin as much as possible. Use protective clothing chemically resistant to this material. Remove contaminated clothing immediately, wash skin area with soap and water and launder clothing before reuse or dispose of Skin Protection:

properly.

Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air **Respiratory Protection:**

changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep

contaminants below levels listed above.

With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection

equipment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, thin liquid

Odor: Fruity Odor Threshold: 180 ppm (Methyl Acetate)

pH: Melting/Freezing Point:

Not Applicable
-99C (-146°F) (Methyl Acetate)
39.8°C (104°F) Based on: Methylene Chloride Boiling Point: Flash Point: **Evaporation Rate:** > 1.0 (BUAC = 1)

-10°C (14°F) (Methyl Acetate) 1.12 @23°C (73.4°F) Flammability: None

Specific Gravity: Flammability Limits:

LEL: 3.1% (Methyl Acetate) Solubility:
Partition Coefficient n-octanol/water: **UEL:** 22% (Methylene Chloride) 355 mmHG @ 20C (Methylene Chloride) 32g/100g H2O (Methyl Acetate)

Not Available Vapor Pressure: Auto-ignition Temperature:

454°C (849°F) (Methyl Acetate)

Not Applicable

Vapor Density:

>2.0 (Air = 1)

Other Data: Viscosity: Water-thin

When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: ≤250 g/l. Decomposition Temperature: VOC Content:

SECTION 10 - STABILITY AND REACTIVITY

Stable under recommended storage conditions. (See Section 7)

Hazardous decomposition products: Depending on temperature and air supply, may include hydrogén chloride, trace amounts of chlorine, phosgene.

Conditions to avoid: Avoid open flames, welding arcs, or other high temperature sources. Avoid direct sunlight.

Incompatible Materials: Oxidizers, strong bases, amines, metals such as zinc powders, aluminum or magnesium powders, potassium

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation: Excessive overexposure may cause irritation to nose and throat. In confined areas, vapor can accumulate and can cause unconsciousness

May cause moderate eye irritation which may be slow to heal. May cause slight corneal injury. Vapor may cause mild discomfort and **Eve Contact:** redness.

Skin Contact: Prolonged contact may cause skin burns. May cause more severe response on covered skin (under clothing and gloves). Ingestion: Low toxicity if small amount swallowed, however larger amounts may cause injury. Aspiration into the lungs may occur during

ingestion or vomiting.

i) effects: IARC Classification 2B (Methylene Chloride) Chronic (long-term) effects:

Toxicity: LD₅₀ LC₅₀ **Target Organs**

STOT SE3 Methylene Chloride (dichloromethane) Inhalation 7 hrs. >10000 PPM (rat)

Oral: 1500- 2500 mg/kg (rat), Dermal: Not Determined Oral: >5000 mg/kg (oral/rabbit) Methyl Acetate Inhalation 4 hrs. 12000 PPM (rat) STOT SE3

Reproductive Effects Sensitization to Product Synergistic Products Teratogenicity Mutagenicity **Embryotoxicity** Not Established Not Established Category 2 Not Established Not Established Not Established



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SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of <250 g/l. Mobility in soil is high.

Degradability: Moderately biodegradable

Bioaccumulation: Low

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Adhesives **Hazard Class:** Secondary Risk: None

EXCEPTION for Ground Shipping

UP to 5L per inner packaging, 30 kg gross weight per package

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D'

TDG INFORMATION

Identification Number: **UN 1133**

PG II

Packing Group: Label Required: Class 3 Flammable Liquid

Marine Pollutant: TDG CLASS: FLAMMABLE LIQUID 3 NO

ADHESIVES SHIPPING NAME UN NUMBER/PACKING GROUP: UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Harmful, Suspected Carcinogen

Symbols: Harmful, Flammable

AICS, Korea ECL/TCCL, Japan MITI (ENCS)CA Prop 65

R66: Repeated exposure may cause skin dryness or cracking

Rísk Phrases: R11: Highly flammable. R36: Irritating to eyes.

R40: Limited evidence of a carcinogenic effect. R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia,

medical advice.

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

S23: Do no breath vapors.

S29: Do not empty into drains.

S24:/25: Avoid contact with skin and eyes.

S33: Take precautionary measures against static discharges.

S36/37: Wear suitable protective clothing and gloves.

SECTION 16 - OTHER INFORMATION

Specification Information:

Department issuing data sheet: IPS, Safety Health & Environmental Affairs.

All ingredients are compliant with the requirements of the European

Directive on RoHS (Restriction of Hazardous Substances).

E-mail address: <EHSinfo@ipscorp.com>

Yes, training in practices and procedures contained in product literature. Training necessary:

Reissue date / reason for reissue: 6/06/2012 / Updated GHS Standard Format

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.