

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name Polyken 1039 Liquid Adhesive
Use/Size Pipe Corrosion Protection
Manufacturer/Supplier Berry Plastics Corporation, Tapes and Coatings Division
Address 2320 Bowling Green Road
Franklin, Kentucky
Phone Number (270) 586-3261 (Monday – Friday 8:00 am to 5:00 pm)
Chemtrec Number (800) 424-9300
Revision Date:
MSDS Date: October 26, 2010

Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU Main Hazards

R10 Flammable.
R36/38 Irritating to eyes and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

Routes of Entry

Absorption - Eye contact - Ingestion - Inhalation - Skin contact

Carcinogenic Status

See Section 11.

Target Organs

Skin - Eye - Respiratory System - Central Nervous System - Liver - Kidney

Health Effects - Eyes

Liquid, mist or vapor may cause pain, transient irritation and superficial corneal effects.

Health Effects - Skin

Material may cause irritation. Material can be absorbed through the skin and cause effects similar to those resulting from inhalation.

Health Effects - Ingestion

This product may cause irritation to the mouth, throat and digestive tract, with nausea, vomiting and diarrhea. May cause adverse central nervous system, liver and kidney effects.

Health Effects - Inhalation

Exposure to vapor may have the following effects: irritation of nose, throat and respiratory tract, central nervous system depression, dizziness, drowsiness, headache, and mental confusion. Repeated or prolonged exposure to vapor at high concentrations may have the following effects: nervous system damage, liver damage and kidney damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Parachlorobenzyltrifluoride	98-56-6 202-681-1	75 - 85%	R10, R36/38, R48/20, R52/53, R67	F, Xn, N
Carbon Black	1333-86-4 215-609-9	1 - 5%	None	None
Polymers and Resins	N.A.	15 - 25%	None	None

4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Immediately flood the skin with large quantities of water for at least 15 minutes, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

Ingestion

Do not induce vomiting, unless directed to do so by a physician. Have victim drink 1-3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Advice to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards

Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware of possibility of re-ignition.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing. Eliminate all sources of ignition. Use non-sparking scoops for flammable materials. Vapors can accumulate in low areas. Consider need for evacuation. Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Keep from reach of children. Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.

Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated - out of direct sunlight – away from sources of ignition(heat, sparks, flames, pilot lights) - away from incompatible materials (see Section 10)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Parachlorobenzyltrifluoride

None assigned.

Carbon Black

ACGIH: TLV 3 mg/m³ 8h TWA

OSHA: PEL 3 mg/m³ 8h TWA.

Polymers and Resins

None assigned.

Engineering Control Measures

Use engineering methods to prevent or control exposure. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Respiratory Protection

Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Hand Protection

Butyl gloves are recommended.

Eye Protection

Chemical goggles or safety glasses with side shields

Body Protection

If there is danger of splashing, wear: - overall or apron

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Black
Odor	Solvent
pH	Not determined
Density (lbs/gal)	Not determined
Boiling Range/Point (°C/F)	139.63/282.7 (Parachlorobenzyltrifluoride)
Melting Point (°C/F)	-33/-27 (Parachlorobenzyltrifluoride)
Flash Point (°C/F)	43/109 Closed Cup
Vapor Pressure	1.01 kPa @ 77°F/25°C (Parachlorobenzyltrifluoride)
Evaporation Rate (BuAc=1)	0.9 (Parachlorobenzyltrifluoride)
Solubility in Water	Negligible
Vapor Density (Air = 1)	6.24 (Parachlorobenzyltrifluoride)

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Heat, sparks, flames - high temperatures - sources of ignition - welding arcs - pilot lights - static electricity - contact with incompatible materials

Materials to Avoid

Strong oxidizing agents - strong alkalis

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon - low molecular weight hydrocarbons - phenolic vapors - chlorine and fluorine containing gases

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Parachlorobenzyltrifluoride: Oral LD50 (rat) >6800mg/kg
Dermal LD50 (rabbit) >2700 mg/kg
Inhalation LC50 (rat) 4479 ppm, 4h

Specific Target Organ Systemic Toxicity (single and repeat)

Parachlorobenzyltrifluoride: In animal studies, adverse central nervous system, liver and kidney effects were seen.

Serious Eye damage/Eye Irritation

Parachlorobenzyltrifluoride: Irritating to eyes. (UICLID)

Skin Corrosion/Irritation

Parachlorobenzyltrifluoride: Irritating to skin. (UICLID)

Respiratory or Skin Sensitization

No relevant studies identified.

Carcinogenicity

This product contains carbon black which is classified by IARC as a Group 2B possible human carcinogen. When encapsulated in the liquid matrix the risk of exposure is reduced.

Germ Cell Mutagenicity

Parachlorobenzyltrifluoride: No mutagenic effects in Salmonella tester strains or gene conversions in Saccharomyces when administered at concentrations from 0.01-10.0 ul/plate in the presence or absence of metabolic activation (HSDB).

Toxicity to Reproduction

No relevant studies identified.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

Parachlorobenzyltrifluoride: LC50 Rainbow Trout 96 hr 13.5 mg/l
LC50 Water Flea 48 hr 12.4 mg/l
IC50 Algae 72 hr 500 mg/l

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Use non-sparking tools. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Coating Solution (3) UN1139, III
UN Proper Shipping Name	Coating Solution
UN Class	(3)
UN Number	UN1139
UN Packaging Group	III
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.

15. REGULATORY INFORMATION

EU Label Information

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

EU Hazard Symbol and Indication of Danger

Xn - Harmful
N- Dangerous for the environment
F- Flammable

R phrases

R10 Flammable.
R36/38 Irritating to eyes and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

S phrases

S36/37 Wear suitable protective clothing and gloves.
S57 Use appropriate containment to avoid environmental contamination.
S46 If swallowed, seek medical advice immediately and show this container or label.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS**TSCA Listing**

All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.

EINECS Listing

All ingredients in this product have not been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS) or specifically exempted.

DSL (Canadian) Listing

All ingredients in this product have not been verified for inclusion on the Domestic Substance List (DSL).

California Proposition 65

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Ethylbenzene (100-41-4) <0.05% - Formaldehyde (50-00-0) trace

15. REGULATORY INFORMATION

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard

SARA Title III Sect. 313

This product contains a chemical that is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: None

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 2
NFPA Code for Health - 2
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards – None

HMIS Ratings

HMIS Code for Flammability – 2
HMIS Code for Health - 2
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

Abbreviations

N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety

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