

**POLOPLAZ LOW VOC SEALER**

**SDS: 5/11/15**

**Replaces: 2/14/13**

**1.0 Identification**

1.1 Product Identifier

**Product Name: Poloplaz Low VOC Sealer**

Application of the substance/the preparation: Polyurethane Wood Sealer

1.2 Relevant identified uses of the substance or mixture: Finishes, Coatings and Related Materials:  
For Professional Use Only.

1.3 Supplier:

Poloplaz

1 Paradise Park Road

Jacksonville, AR 72076

Telephone: (501) 985-1172

www.poloplaz.com

1.4 Emergency contact:

Infotrac #: 1-800-535-5053

**2.0 Hazards Identification**

**GHS Classification:**

Flammable liquids:	Category 3
Skin irritation:	Category 2
Aspiration hazard:	Category 1
Specific target organ toxicity-single exposure:	Category 3 (central nervous system)
Chronic aquatic toxicity:	Category 2
Carcinogenicity:	Category 2
Reproductive Toxicity:	Category 2

**GHS Label element**

Hazard Pictograms:



Signal Word: Danger

Hazard Statements:

H226: Flammable liquid and vapors

H304: May be fatal if swallowed and enters airways

H315: Causes skin irritation

H318: Causes eye irritation

H336: May cause drowsiness or dizziness

H351: Suspected of causing cancer

H361: Suspected of damaging fertility or the unborn child.

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H372: Causes damage to organs through prolonged or repeated exposure

H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

**Prevention:**

P102: Keep out of reach of children

P103: Read label before use

P202: Do not handle until all safety precautions have been read and understood

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

P233: Keep container tightly closed

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

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

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well ventilated area.

P273: Avoid release to the environment

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

P285: In case of inadequate ventilation, use respiratory protection

**Response:**

P301 + P310 IF SWALLOWED; immediately call a POISON CENTER or doctor/physician.

P303+ P 361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P 340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.

P314: Get medical advice/attention if you feel unwell.

P331 Do NOT induce vomiting

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

**Disposal:**

P501 Dispose of contents/container to an approved waste disposal plant.

Additional Information:

Other Hazards: Rags, steel wool and other waste soaked with this product along with sawdust from freshly sanded floors or dust from wood floors that have been abraded between coats may spontaneously catch fire if improperly discard. Dispose of rags, sawdust, steel wool, and waste products in a sealed metal container and in accordance with local fire regulations.

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Warning: Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

**3. Composition/information on ingredients:**

- Hydrotreated Light Distillates (petroleum), CAS# 64742-47-8, % wt 55-60%
- Solvent Naphtha, medium aliphatic (petroleum), CAS# 64742-88-7, %wt 1-5%
- Parachlorobenzotrifluoride (PCBTF), CAS# 98-56-6, % wt =1-10%
- Octamethylcyclotetrasiloxane, CAS# 556-67-2, % wt-20-50%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**4. First Aid Measures:**

**Eye Contact**

Move individual away from exposure. Remove contact lenses. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Keep eyes(s) wide open while rinsing. Get immediate medical attention

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse

**Inhalation**

Remove victim to fresh air. Keep warm and quiet. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. GET IMMEDIATE MEDICAL ATTENTION

**Ingestion (Swallowed)**

Do not induce vomiting. Potential for aspiration if swallowed. This material may enter the lungs during vomiting. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

**5. Fire-Fighting Measures**

Suitable Extinguishing Media

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Carbon dioxide (CO<sub>2</sub>), foam, dry chemical, water spray. Does not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

Combustion/Explosion Hazards Combustible liquid. Vapors may form explosive mixture with air. flash back possible over considerable distance. Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut weld, braze, colder, drill, grind, or expose these containers to heat, flame, sparks, static electricity or other sources of ignition as the container may explode and may cause injury or death. Empty containers should be completely drained and properly bunged. Empty containers should be promptly return to a be reconditioned or properly disposed.

Protective equipment and precautions for firefighters:

Wear self contained breathing apparatus (SCBA) and full fire fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. DO NOT extinguish a fire resulting from the flow of this combustible liquid until the flow of liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished. Use water spray to cool fire-exposed containers.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures.

Personal precautions. Remove all source of ignition. Use person protective equipment as require. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

Environmental precautions. Prevent further leakage or spillage, if safe to do dos. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and clean up:

Methods for containment: Prevent spilled form 1) contamination in soil, 2) entering sanitary sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waters ay. Prevent spreading over a wide area (e.g. by containment or oil barriers)

Methods for clean-up Soak with inter absorbent material (e.g., sand, silica gel)

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**7. Handling and storage**

Precautions for safe handling

Handling. Avoid breathing vapors or mists. Avoid contact with eyes, skin and clothing. Take off contaminated clothing and wash before reuse. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation. Remove all sources of ignition. Do not smoke. Ground and bond containers when transferring material Use spark proof tools and explosion –proof equipment

Conditions for safe storage, including any incompatibilities.

Storage Keep away from heat, sparks and open flame. No smoking. Keep containers tightly closed in a dry cool and well-ventilated place.

**8. Exposure controls/Personal Protection**

CAS-No	Components	Value type (Form of Exposure)	Control parameters/ Permissible concentration	Basis
64742-47-8	Distillates (Pet, light)	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3 (as total hydro- carbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA PO
64742-47-8	Solvent (naptha)	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3 (as total hydro- carbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA PO

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Benzene, 1-chloro-4-(trifluoromethyl)-	Exposure Limit-ACGIH-Not Available Exposure Limit-OSHA-Not Available Immediately Dangerous to Life or Health-IDLH-Not Available
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Octamethylcyclotetrasiloxane	TWA	10 ppm	DCC OEL
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### Appropriate Engineering Controls

Engineering controls Use general ventilation to maintain airborne concentration to levels that are below regulatory and recommended occupation exposure limits. Local ventilation may be required during certain operations. Use explosion proof equipment.

Individual protection measures, such as personal protective equipment.

Eye/face protection: Safety glass with side-shield., if splashes are likely to occur. Tight sealed safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protections: Gloves made of nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are proved by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Chemical resistant apron, boots.

Respiratory protection: None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with organic vapor cartridges where airborne concentrations may exceed exposure limits in Section 8. Use an approve positive-pressure air-supplied respirator with emergency escape provision if there is any potential from an uncontrolled release, airborne concentrations are not know, or any other circumstances where air-purifying respirators may not provide adequate protect.

“General hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

Appearance	Pale yellow
Odor	Mild petroleum odor
Odor threshold	No information available
Physical State	Liquid
pH	Not applicable
Flashpoint	101 °F TCC
Autoignition Temperature	260 °C (Stoddard Solvent)
Boiling range	161-198 °C (Stoddard Solvent)

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Melting point/Freezing point	No information available
Flammability Limit in Air	
Lower	0.8% (Stoddard Solvent)
Upper	5.6% (Stoddard Solvent)
Specific Gravity	0.95
Solubility	Insoluble (water)
Evaporation Rate	0.18 (BuAc =1) (Stoddard Solvent)
Vapor Pressure	0.27 KPa @ 20 °C (Stoddard Solvent)
Vapor Density	4.9 (Air =1) (Stoddard Solvent)
Explosive Properties	No information available
Oxidizing Properties	No information available
Percent Volatile (% wt.)	63
VOC content	350 g/l-2.92 lbs/gal
Viscosity	26-36 cps
Partition Coefficient (n-octanol/Water)	No information available
Decomposition Temperature	No information available

**10. Stability and Reactivity**

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous Polymerization does not occur.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>) Hydrocarbons

**11. Toxicological Information**

Information on likely routes of exposure

Primary Routes of Entry Skin contact, Ingestion, Inhalation, Eye Contact

Acute toxicity

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Oral LD50 > 5000 mg/kg (rat)  
Dermal LD50 > 2000 mg/kg (rabbit)

64742-88-7

Oral LD50 > 5000 mg/kg (rat)  
Inhalation LD50 > 5.28 mg/l (rat, male, female)  
Dermal LD50 > 2000 mg/kg (rabbit)

556-67-2

Oral LD50 > 4800 mg/kg (rat)  
Inhalation LC50 2975 ppm (rat), 4h exposure  
Dermal LD50 > 2.5ml/kg (rabbit)

Information on toxicological effects

Symptoms: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effect from short and long-term exposure.

Eyes: Mild eye irritant

Skin: Mild skin irritant. Repeated exposure may cause skin dryness or cracking.

Inhalation: Inhalation of vapors in high concentration may cause irritation of respiratory system. Inhalation of high vapor concentrations can cause CNS-depression and narcosis.

Ingestion: Ingestion (swallowing) may irritate the mouth, throat and stomach. Ingestion is not an anticipated route of exposure for this material in industrial use.

Respiratory or skin sensitization

64742-47-8

Does not cause skin sensitization

64742-88-7

Does not cause skin sensitization

556-67-2

Not classified as respiratory or skin sensitizer based on available information



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Germ cell mutagenicity

64742-47-8

Negative

64742-88-7

Negative

556-67-2

Animal testing did not show any mutagenic effects.

Carcinogenicity

64742-47-8

Species: mouse, (male and female), dermal

Result: Limited evidence of carcinogenic effects

Symptoms: Local irritation, dermal tumors

Carcinogenicity Assessment: Classification not possible from current data.

64742-88-7

Species: mouse, (male and female), dermal

Result: Limited evidence of carcinogenic effects

Symptoms: Local irritation, dermal tumors

Carcinogenicity Assessment: Classification not possible from current data.

Benzene, 1-chloro-4-  
(trifluoromethyl)-

IARC-Carcinogens-Not listed  
ACGIH-Carcinogens-Not listed

556-67-2

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, OSHA, or NTP

Reproductive toxicity

64742-47-8

Fertility: No Reproductive effects

Fetal development: Developmental toxicity occurred at maternal toxicity dose levels.

No teratogenic effects.

Reproductive toxicity assessment: Animal testing did not show any effects on fertility.

Embryotoxicity classification not possible from current data.

64742-88-7

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Fertility: No Reproductive effects

Fetal development: Developmental toxicity occurred at maternal toxicity dose levels.

No teratogenic effects.

Reproductive toxicity assessment: Animal testing did not show any effects on fertility.

Embryotoxicity classification not possible from current data.

556-67-2

Suspected of damaging fertility or the unborn child based on animal studies.

Specific Target Organ Toxicity (STOT)-single exposure, Inhalation, target organ Central Nervous System, May cause drowsiness or dizziness,

STOT-repeated exposure

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidneys and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Further Information

Octamethylcyclotetrasiloxane:

Remarks: Results from a 2 year repeated vapor inhalation exposure study to rates of Octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Based on the available information on its potential to cause harm to human health. Health Canada, in a 2008 screening assessment has concluded that Octamethylcyclotetrasiloxane is not entering the environment in a quantity or concentration or under conditions that constitute or may constitute a danger in Canada to human life or health. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknowns.

**12. Ecological Information:**

64742-47-8

Toxicity to fish: LL50 25 mg/l

Toxicity to daphnia: EL50 1.4 mg/l

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Toxicity to algae: EL50 1-3 mg/l

64742-88-7

Toxicity to fish: LL50 2 mg/l

Toxicity to daphnia: EL50 1.4 mg/l

Toxicity to algae: EL50 1 mg/l

Benzene, 1-chloro-4-  
(trifluoromethyl)-

Ecotoxicity-Fish Species, LC50, 48h  
(Lepomis macrochirus), 11.5-15.8 mg/l, static  
Acute Crustaceans Toxicity-Not Available  
Ecotoxicity-Freshwater Algae Data-Not Available

Octamethylcyclotetrasiloxane

LC50-Fish (Oncorhynchus mykiss (rainbow trout) > 0.022 mg/l,  
96h, No toxicity at the limit of solubility  
NOEC-Fish (Oncorhynchus mykiss (rainbow trout) >= 0.0044  
mg/l, No toxicity at the limit of solubility  
EC50- (Daphnia sp.) > 0.015 mg/l, 48h  
No toxicity at the limit of solubility  
NOEC-(Daphnia magna) > 0.0079 mg/l, 21d  
No toxicity at the limit of solubility  
EC50- (algae) > 0.022 mg/l, 96h  
No toxicity at the limit of solubility  
NOEC- (algae) > 0.022 mg/l, 96h  
No toxicity at the limit of solubility  
IC50 (bacteria): 10,000 mg/l, Method ISO 8192

Ecotoxicity Assessment: May cause long lasting harmful effects  
to aquatic life.

Persistence and degradability:

Note readily biodegradable, 3.7%, 28d, OECD 310

Stability in water:

Degradation half life: 69.3-144h (24.6 °C), pH 7, OECD 111

Bioaccumulative potential:

Partition coefficient: n-octanol/water, log Pow: 6.48 (25.1 °C)

Mobility in soil: No data available

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Other adverse effects: Octamethylcyclotetrasiloxane (D4) meets the current REACH Annex XIII criteria for PBT and VPVB. In Canada, D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organism.

Do not empty into drains; dispose of this material its container in a safe way. Avoid dispersal of spilled material and runoff and runoff and contact with soil, waterways, drains and sewers.

### 13. Disposal Considerations

Disposal methods

Waste from residues: Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging:

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty container.

### 14. Transport Information

DOT: May be Classed as a Combustible Liquid for U.S. Ground.

UN 1263, Paint, Class 3, Packing Group III, Labels 3, Emergency Response 128

Canada (TDG): May be Classed as a Combustible Liquid for U.S. Ground.

UN 1263, Paint, Class 3, Packing Group III, Labels 3, Emergency Response 128

IATA: UN 1263, Paint, Class 3, Packing Group III, Labels 3

Packing Instruction (cargo aircraft) 366

Packing Instruction (passenger aircraft) 355

IMDG: UN 1263, Paint, Class 3, Packing Group III, Labels 3

EmS Number 1: F-E

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EmS Number 2: S-E

**15. Regulatory information**

**OSHA HAZARDS:** Combustible Liquid, Toxic by inhalation, harmful by ingestion, harmful by skin absorption, moderate skin irritant, aspiration hazard

International Inventories

**TSCA: United States** Yes-All components are listed or exempt

**DSL: Canada** Yes-All components are listed or exempt

Federal Regulations

**CERCA Reportable Quantity:** This material does not contain any components with a CERCLA RQ.

**SARA302 Reportable Quantity:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA304 Reportable Quantity:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 categorization**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**SARA313:** This material does not contain any components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act:**

**Ozone-Depletion Potential:** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S Clean Air Act Section 12 (40 CFR 61)

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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for accidental release prevention (40 CFR 68. 130, Subpart F).

**California Proposition 65:** This product may contain small amounts of material known to the state of California to cause cancer or reproductive harm.

**16. Other information**

HMIS:                    Health: 2                    Flammability: 2                    Reactivity: 0

NFPA:                    Health: 2                    Flammability: 2                    Reactivity: 0

We recommend containers be either professionally reconditioned for reuse by certified firms or properly disposed of by certified firms to help reduce the possibility of an accident. Disposal of containers should be in accordance with applicable Federal, State, and Local laws and regulations. Empty drums should not be given to individuals.

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

The conditions of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.