

# EZ 22-WPS Gloss 2-Component Waterborne Polyurethane Sealer PART A SAFETY DATA SHEET

623 Chatsworth Hwy 225

Calhoun, GA 30701

706.403.3286

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# Hazard(s) identification

### **GHS Ratings:**

Skin corrosive 3 Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3

Eye corrosive 2 Eye irritant: Subcategory 2A, Reversible in 21 days

Carcinogen 2A Limited evidence of human or animal carcinogenicity Presumed,

Reproductive toxin 1B Based on experimental animals

# **GHS Hazards**

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H351 Suspected of causing cancer

H360 May damage fertility or the unborn

child

## **GHS Precautions**

P201 Obtain special instructions before use

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

P264 Wash ... thoroughly after handling

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

P281 Use personal protective equipment as required

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

P308+P313 IF exposed or concerned: Get medical attention/advice

P332+P313 If skin irritation occurs: Get medical advice/attention P337+P313 If

eye irritation persists, get medical advice/attention P405 Store locked up

P501 Dispose of in accordance with all applicable local, state and federal regulations.

Signal Word: Danger



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# Composition/information on ingredients

CAS number	Weight Concentration %
N/A	40.00% - 50.00%
7732-18-5	30.00% - 40.00%
	10.00% - 20.00%
	1.00% - 5.00%
	1.00% - 5.00%
	N/A

#### First-aid measures

If inhaled: In case of irritation of the respiratory tract seek medical advice.

**In case of eye contact**: Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

**In case of skin contact:** Wash off immediately with soap and plenty of water . Consult a doctor in the event of a skin reaction.

If swallowed: DO NOT induce the patient to vomit, medical advice is required .

# Fire-fighting measures

Flash Point: N/A LEL: 1.00 UEL: 13.00

**Suitable extinguishing media:** Carbon dioxide (CO2), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

Unsuitable extinguishing media: High volume water jet.

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

Firemen must wear self-contained breathing apparatus.

#### Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.
- 6.2 Environment related measures: Do not allow to escape into waterways, wastewater or soil.
- **6.3 Methods and material for containment and cleaning up:** Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.
- 6.4 Reference to other sections: For further disposal measures see section 13

# Handling and storage

When handling observe the usual precautionary measures for chemicals. Avoid contact with the skin and the eyes.

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Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated or soaked clothing. Keep container tightly closed in a dry and well-ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet. No information available.

# **Exposure Controls / Personal Protection**

Chemical Name / CAS No.	<b>OSHA Exposure Limits</b>	ACGIH Exposure Limits	Other Exposure Limits
Modified Copolymer N/A	Not Established	Not Established	Not Established
Water softened 7732-18-5	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.	Not Established
2-methoxy-1-methylethyl acetate	Not Established	Not Established	Not Established
Styrene	Not Established	(ACGIH 2010) 8 Hour TWA (mg/m3)	Not Established
Polyoxyethylene stearyl ether	Not Established	Not Established	Not Established

### **Physical and Chemical Properties**

This mixture typically exhibits the following properties under normal circumstance:

Appearance: Liquid Odor: slight inherent odour

Vapor Pressure: 25 hPa at 20 °C Odor threshold: Not determined

Vapor Density: Not determined pH: 7 - 8

**Density:** 1,06 g/cm³ at 20 °C **Solubility:** Not determined

**Boiling point:** 97 °C at 1.013 hPa **Flash point:** No flash point up to initial boiling point.

Evaporation rate: Not determined Flammability: not applicable Partition coefficient (n-

Autoignition temperature: not applicable octanol/water):

Viscosity: Decomposition temperature: not applicable

Grams VOC less water:

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# Stability and Reactivity

No thermal decomposition when stored and handled correctly.

**STABLE** 

On drying of the coating / hardening release of neutralizing agent Hazardous polymerization will not occur.

# **Toxicological Information**

Mixture Toxicity

Inhalation Toxicity LC50: 1,109mg/L

Component Toxicity

Primary routes of entry: Inhalation, Skin contact.

CAS Number Description % Weight

100-42-5 Styrene 1% - 5%

Carcinogen Rating Styrene:

## **Ecological Information**

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil

#### **Component Ecotoxicity**

Water softened Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic. 2-methoxy-1-methylethyl acetate Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 161 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia): 408 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants: EC50 (Selenastrum capricornutum (green algae)): >

1,000 mg/l Exposure time: 96 h Test Type: Growth inhibition

Styrene Do not empty into drains. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Contains a substance which is:. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# **Disposal Considerations**

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used .

**Waste treatment methods:** After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

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#### **Hazards Identification**

# **GHS Ratings:**

Inhalation Toxicity 2 Gases>100+<=500ppm, Vapors>0.5+<=2mg/l, Dusts&mists>0.05+<=0.5mg/l

Respiratory sensitizer 1 Respiratory sensitizer Skin sensitizer 1 Skin sensitizer

#### **GHS Hazards**

H317 May cause an allergic skin reaction H330

Fatal if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

### **GHS Precautions**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace

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

P285 In case of inadequate ventilation wear respiratory protection

P321 Specific treatment (see ... on this label)

P363 Wash contaminated clothing before reuse

P302+P352 IF ON SKIN: Wash with soap and water

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P342+P311 Call a POISON CENTER or doctor/physician

P501 Dispose of in accordance with all applicable local, state and federal regulations.

#### Signal Word: Danger





# Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	80.00% - 90.00%
HOMOPOLYMER OF ISOPHORONE DIISOCYANATE	53880-05-0	11.00%
Polyoxyethylene Tridecyl Ether Phosphate	9046-01-9	1.00% - 5.00%
Dimethylcyclohexylamine	98-94-2	1.00% - 5.00%

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#### First Aid Measures

After inhalation: Move the person away from the contaminated area. Fresh air and rest. Seek immediate

medical advice. Show this sheet to the doctor.

After eye contact: Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) while keeping the eyes wide open. If irritation persists, consult a doctor. Show this sheet to the doctor.

After skin contact: Wash with soap and water. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). In case of inflammation (redness, irritation, ...) obtain medical attention. Place contaminated clothing in a sealed bag for disposal.

After swallowing: NEVER attempt to induce vomiting. Rinse mouth out with water. Do not give anything to drink. If necessary seek medical advice. Show this sheet to the doctor.

# Fire-fighting measures

Flash Point: N/A LEL: UEL:

Suitable extinguishing agents: Foam Powders Carbon dioxide Dry chemical

For safety reasons unsuitable extinguishing agents: Water

Combustible. During combustion toxic vapors are released. Under fire conditions, corrosive fumes are emitted: oxides of nitrogen oxides of carbon. Reacts with water releasing large amounts of carbon dioxide which may cause pressure build-up in confined spaces.

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

#### **Accidental Release Measures**

#### Personal precautions, protective equipment and emergency procedures

- 7 Avoid contact with the eyes and skin.
- 8 Do not breathe gas.
- Do NOT approach from DOWNWIND. Do NOT attempt to take action WITHOUT suitable protective equipment.
- 11 Self-contained breathing apparatus.
- 12 Wear fully protective suit.
- 13 Mark out the contaminated area with signs and prevent access to unauthorized personnel.
- Keep people at a distance and stay upwind.

### **Environmental precautions:**

- Contain the spilled material by binding. 15
- 16 Do not allow to enter sewers/ surface or ground water. ·

### Methods and material for containment and cleaning up:

- 17 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- 18 Pump up the product into a spare container suitably labeled.
- 19 Wash contaminated area with large amounts of water.
- 20 Recover the cleaning water for subsequent disposal.
- 21 Dispose contaminated material as waste according to item 13.

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22 Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

#### Reference to other sections

- 23 See Section 7 for information on safe handling.
- See Section 8 for iinformation on personal protection equipment.
- See Section 13 for disposal information.

# Handling and Storage

### Precautions for safe handling:

- Ensure good ventilation/aspiration at the workplace.
- Avoid contact with water or humidity.
- Avoid any direct contact with the product.
- Any measure to eliminate exposure should be considered.
- Very high level of containment required, except for short term exposures e.g. taking samples (industrial use condition).
- Comply with instructions for use (refer to technical sheet).

#### Storage:

- The floor of the depot should be impermeable and designed to form a water-tight basin.
- Store in cool, dry conditions in well sealed receptacles.
- Store receptacle in a well ventilated area.
- Store away from incompatible materials.

# Requirements to be met by storerooms and receptacles:

- Store only in unopened original receptacles.
- Metallic drums.
- Storage tank with a dry nitrogen blanket.
- Packaging materials recommended : Aluminium. Steel.
- Unsuitable material for receptacle: Copper.
- Unsuitable material for receptacle: Tin
- Suitable material for receptacle and pipe: epoxy-coated steel.
- Unsuitable material for receptacle: Polystyrene.

### **Exposure Controls / Personal Protection**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE 28182-81-2	Not Established	Not Established	Not Established
HOMOPOLYMER OF ISOPHORONE DIISOCYANATE 53880-05-0	Not Established	Not Established	Not Established
Polyoxyethylene Tridecyl Ether Phosphate 9046-01-9	Not Established	Not Established	Not Established
Dimethylcyclohexylamine 98-94-2	Not Established	Not Established	Not Established

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#### **Protective gloves:**

26 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation . Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

27 Suitable materials also with prolonged, direct contact (protective index 6, corresponding > 480 minutes of permeation time): Butyl rubber, BR Protective gloves must be chosen according to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required.

### Eye protection:

28 Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

29 Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the workarea.

**Body protection**: Protective work clothing

# **Physical and Chemical Properties**

This mixture typically exhibits the following properties under normal circumstance:

Appearance Liquid Physical State Liquid

**VOC** 83.9 % **Boiling Point** 160 °C, 320 °F

Specific Gravity (SG) 1.087 Lbs VOC/Gallon Less Water 0.00

# Stability and Reactivity

Chemical stability: Stable at ambient temperature

**STABLE** 

### Possibility of hazardous reactions Reacts with:

- water and aqueous solutions.
- alcohols.
- amines.
- bases.
- protic solvents. with a great release of CO2, and hence a risk of a pressure build-up in confined areas, and forms an insoluble solid precipitate.
- Reacts with strong acids
- Reacts with strong oxidizing agents

Hazardous decomposition products: On thermal decomposition (pyrolysis) releases: Toxic gases.

Nitrogen oxides Carbon oxides (CO + CO2)

• Hazardous polymerization will not occur.

# **Toxicological Information**

#### **Mixture Toxicity**

Oral Toxicity LD50: 2,487mg/kg Inhalation Toxicity LC50: 1mg/

# **L Component Toxicity**

28182-81-2 HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE

Oral LD50: 2,500 mg/kg (Rat (female)) Inhalation LC50: 1 mg/L (Rat (male))

53880-05-0 HOMOPOLYMER OF ISOPHORONE DIISOCYANATE

Inhalation LC50: 5 mg/L (Rat)

9046-01-9 Polyoxyethylene Tridecyl Ether Phosphate

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Oral LD50: 1,530 mg/kg (Rat) Dermal LD50: 2,740 mg/kg (Rabbit) Inhalation

LC50: 850 mg/m3 (Rat)

98-94-2 Dimethylcyclohexylamine

Oral LD50: 289 mg/kg (Rat) Dermal LD50: 380 mg/kg (Rat)

Primary routes of entry: Inhalation, Skin contact

<u>CAS Number Description % Weight None</u> <u>Carcinogen Rating No Data Available</u>

# **Ecological Information**

The product does not have any known adverse effects on the aquatic organisms tested .

#### **Component Ecotoxicity**

HOMOPOLYMER OF ISOPHORONE DIISOCYANATE

Polyoxyethylene Tridecyl Ether Phosphate

LC50 Cyprinus carpio: > 1.5 mg/l / 96h Method: OECD Test Guidline 203

In the range of water solubility not toxic under test conditions.

ErC50 Growth inhibition scendedesmus subspicatus: > 3.1 mg/l / 72h Test substance: Isophoronediisocyanate,

homopolymer Method: OECD 201

The result refers to a 70% solution.

EC50 Acitivated sludge: > 1000 mg/l / 3h Method: OECD 209

Nominal concentration

EC50 Daphnia magna (water flea): > 3.3 mg/l / 48h Test substance: Isophoronediisocyanate, homopolymer

Method: OECD 202

The result refers to a 70% solution. No data available.

Dimethylcyclohexylamine The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

# **Disposal Considerations**

#### Waste treatment methods Recommendation:

- 30 Discharging waste into rivers and drains is forbidden.
- 31 Incinerate at a licensed installation.
- Disposal must be made according to federal, state and local regulations.

Waste disposal key: EPA Hazardous Waste - NO

**Uncleaned packaging**: Contaminated packaging materials must be disposed of in the same manner as the product.

#### Recommendation:

- 33 Allow it to drain thoroughly.
- 34 Thoroughly emptied and clean packaging may be recycled.
- 35 Disposal must be made according to official regulations.

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