

# SAFETY DATA SHEET

Date Prepared : 04/30/2015

SDS No : Gem Supply\_ZD1 Glass Cleaner

## ZD1 Glass Cleaner

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ZD1 Glass Cleaner

**GENERAL USE:** Glass and multiple surfaces cleaner

**PRODUCT DESCRIPTION:** Concentrated Glass & Multi-Surface Cleaner

**CHEMICAL FAMILY:** Solvent/detergent blend

#### DISTRIBUTOR

Gem Supply

1312 W. Washington St.

Orlando, FL 32805

**Customer Service:** 407-849-6163

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEM-TEL (Medical and Transportation):** 800-255-3924

**POISON CONTROL CENTER (Medical):** 800-222-1222

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Eye Irritation, Category 2A

Acute Toxicity (Oral), Category 4

Skin Irritation, Category 2

##### Physical:

Combustible Liquid, Category 4

#### GHS LABEL



Exclamation  
mark

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H302: Harmful if swallowed.

H333: May be harmful if inhaled.

H336: May cause drowsiness or dizziness.

H227: Combustible liquid.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

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

P261: Avoid breathing fume, gas, mist, vapors, or spray.

P273: Avoid release to the environment.

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Response:

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor/physician.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P362: Take off contaminated clothing.

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

P337+P313: If eye irritation persists: Get medical advice/attention.

P370+P378: In case of fire: Use dry chemical, foam or water mist to extinguish.

**Storage:**

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

**Disposal:**

P501: Dispose of contents/container according to all local, state and Federal regulations.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Blue liquid

**IMMEDIATE CONCERNS:** Eye & Skin irritant

**POTENTIAL HEALTH EFFECTS**

**EYES:** Irritating, and may injure eye tissue if not removed promptly.

**SKIN:** Contact may cause moderate to severe irritation.

**SKIN ABSORPTION:** Harmful if absorbed through skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches)

**REPRODUCTIVE TOXICITY**

**TERATOGENIC EFFECTS:** No listed substance

**CARCINOGENICITY:** Not Established

**MUTAGENICITY:** No listed substance

**ROUTES OF ENTRY:** Eye, skin, ingestion, Inhalation.

**TARGET ORGAN STATEMENT:** Blood, kidney, liver, Central nervous system

**CANCER STATEMENT:** None

**WARNING CAUTION LABELS:** Irritant

**PHYSICAL HAZARDS:** Combustible material.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Ethylene glycol butyl ether	45 - 50	111-76-2
Sodium Lauryl Sulfate	0 - 5	151-21-3
Sodium Xylene Sulfonate	0 - 5	1300-72-7
Dye	< 0.2	N/A
Water	45 - 55	7732-18-5

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

**SKIN:** Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

## **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Severe burning sensation, tearing, redness, swelling.

**SKIN:** Contact causes skin irritation.

**INGESTION:** Irritation of mouth, throat, along with stomach upset, vomiting.

**INHALATION:** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

**ACUTE TOXICITY:** Severely irritating to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

**CHRONIC EFFECTS:** Not Established

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## **5. FIRE FIGHTING MEASURES**

**FLAMMABLE CLASS:** IIIA (140-200F)

**GENERAL HAZARD:** Combustible Liquid

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide from combustion

**EXPLOSION HAZARDS:** Fire exposed containers may burst due to increased pressure from heat.

**FIRE FIGHTING PROCEDURES:** Use an extinguishing agent suitable for surrounding fire.

**FIRE FIGHTING EQUIPMENT:** No special requirements.

**SENSITIVE TO STATIC DISCHARGE:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not Established

## **6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LARGE SPILL:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

### **ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Avoid discharges into open waterways.

**LAND SPILL:** Avoid discharge to soil.

**AIR SPILL:** NA = Not Applicable

**GENERAL PROCEDURES:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

**RELEASE NOTES:** Eliminate all ignition sources. Ventilate area well.

**SPECIAL PROTECTIVE EQUIPMENT:** Eye protection, rubber gloves, rubber boots to protect feet.

## **7. HANDLING AND STORAGE**

**GENERAL PROCEDURES:** Close container after use.

**HANDLING:** Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

**STORAGE:** Store in closed container away from heat, spark or open flame.

**STORAGE TEMPERATURE:** (40°F) Minimum to (110°F) Maximum

**STORAGE PRESSURE:** Store at ambient atmospheric pressure.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethylene glycol butyl ether	TWA	50	240	20	97	NL	NL
	STEL					NL	NL

**ENGINEERING CONTROLS:** Use in well ventilated area.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Chemical splash goggles and full face-shield.

**SKIN:** Rubber or other chemical resistant gloves.

**RESPIRATORY:** A respirator is not needed under normal and intended conditions of product use.

**WORK HYGIENIC PRACTICES:** Wash with soap and water after handling. Do not eat, drink or smoke while using product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Solvent, characteristic

**ODOR THRESHOLD:** Not Established

**COLOR:** Blue

**pH:** 11.0 to 12.0

**PERCENT VOLATILE:** >90

**FLASH POINT AND METHOD:** 67.22°C (153°F) Tag Closed Cup (TCC)

**FLAMMABLE LIMITS:** 4.0 to 10.6

**AUTOIGNITION TEMPERATURE:** Not Established

**VAPOR PRESSURE:** ~ 1.2 hPa at 25°C (77°F)

**VAPOR DENSITY:** ~ 4 Air = 1

**BOILING POINT:** 212° F; 100° C

**FREEZING POINT:** 32° F; 0° C

**THERMAL DECOMPOSITION:** Not Available

**SOLUBILITY IN WATER:** Complete

**EVAPORATION RATE:** (Water =1) <1.0

**DENSITY:** 8.12 at 20°C (68°F)

**SPECIFIC GRAVITY:** ~ 0.973 grams/ml.

**VISCOSITY:** Water thin.

**(VOC):** 48.600 % by weight

**10. STABILITY AND REACTIVITY**

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable under normal storage and use conditions.

**CONDITIONS TO AVOID:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**INCOMPATIBLE MATERIALS:** Strong acids, oxidizers.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Ethylene glycol butyl ether	1300 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 3.1 mg/l
Sodium Lauryl Sulfate	1200 mg/kg (rat)	> 2000 to 20000 mg/kg (rabbit)	> 3900 mg/m3 (rat)

**EYES:** Causes eye irritation.

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg guinea pig

**SKIN ABSORPTION:** Not Established

**ORAL LD<sub>50</sub>:** ~ 1300 mg/kg Male and Female rats.

**INHALATION LC<sub>50</sub>:** Not Established

**EYE EFFECTS:** Severe eye irritant.

**SKIN EFFECTS:** Moderate skin irritant.

### CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
Ethylene glycol butyl ether	No listed substance	Group 3 - Not classifiable as to its carcinogenicity to Humans	No listed substance

**IARC:** 3-Group 3: Not classifiable as to its carcinogenicity to humans.

**IRRITATION:** Irritant

**CORROSIVITY:** No data available. Contact Env. Dept.

**SENSITIZATION:** No products were found.

**NEUROTOXICITY:** Central nervous system effects marked by dizziness, headache, nausea, unconsciousness.

**GENETIC EFFECTS:** No known significant effects or critical hazards.

**REPRODUCTIVE EFFECTS:** No known significant effects or critical hazards.

**TARGET ORGANS:** May cause damage to blood, Kidney, liver with prolonged or repeated exposure to high concentrations of vapors.

**MUTAGENICITY:** No known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Not Established

**ECOTOXICOLOGICAL INFORMATION:** Not Available

**AQUATIC TOXICITY (ACUTE):** No known significant effects or critical hazards.

**96-HOUR LC<sub>50</sub>:** Not Established

**96-HOUR EC<sub>50</sub>:** Not Established

**Notes:** Not Established

**CHEMICAL FATE INFORMATION:** This product is biodegradable.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. If discarded, this material and its containers should be treated as hazardous waste based on the

characteristics of ignitibility as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal into public sewer.

**FOR LARGE SPILLS:** Consult with local and state authorities for large volume disposal.

**PRODUCT DISPOSAL:** Small quantities (less than 1 gallon) of used material may be flushed to sanitary sewer with copious amounts of water. Larger quantities must be disposed of by a licensed disposal company.

**EMPTY CONTAINER:** Rinse container with clear water. Offer container for recycling, or dispose of in trash.

**RCRA/EPA WASTE INFORMATION:** No special requirements.

#### 14. TRANSPORT INFORMATION

##### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Compound, Cleaning Liquid

**TECHNICAL NAME:** NA = Not Applicable

**PRIMARY HAZARD CLASS/DIVISION:** NA = Not Applicable

**PLACARDS:** NA = Not Applicable

**LABEL:** No special requirements.

**OTHER SHIPPING INFORMATION:** None

**SPECIAL SHIPPING NOTES:** None

##### AIR (ICAO/IATA)

**SHIPPING NAME:** Not Established

##### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Cleaning Compound, not regulated.

#### 15. REGULATORY INFORMATION

##### UNITED STATES

##### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Health - Acute

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** 2-butoxyethanol 111-76-2 (Category: N230 Certain Glycol Ethers)

##### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Ethylene glycol butyl ether	45 - 50	111-76-2

##### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** No listed substance

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** All ingredients are listed on the TSCA Chemical Inventory.

##### STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Ethylene glycol butyl ether	Massachusetts Right to Know Substance Pennsylvania Right to Know Substance New Jersey Right To Know Substance
Sodium Lauryl Sulfate	New Jersey Right To Know Substance Pennsylvania Right to Know Substance

**CALIFORNIA PROPOSITION 65:** No listed substance

**CARCINOGEN:** Contains an ingredient listed under IARC Group 3.

**16. OTHER INFORMATION**

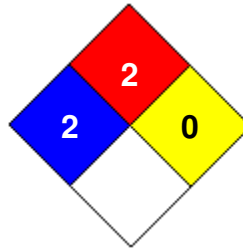
**PREPARED BY:** Regulatory Affairs Department

**Date Prepared:** 04/30/2015

**HMIS RATING**

<b>HEALTH</b>	<input type="text"/>	<b>2</b>
<b>FLAMMABILITY</b>	<input type="text"/>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<input type="text"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input type="text"/>	<b>B</b>

**NFPA CODES**



**MANUFACTURER DISCLAIMER:** This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.