



SAFETY DATA SHEET

Heavy Duty Cleaner

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, and European Directives

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled): Heavy Duty Cleaner
IDH #: 220
Synonyms: N/A
CAS No: Mixture
1.2 Product Use: Cleaner
1.3 Company Name: Glaze 'N Seal Products Inc.
Company Address: 18207 E. McDermott Street Suite C
Company Address Cont: Irvine, CA 92614-6711
Business Phone: (800) 486-1414
Website: <http://glaze-n-seal.com>
1.4 Emergency Telephone Number: (800) 424-9300
Date of Current Revision: November 13, 2018
Date of Last Revision: January 25, 2016

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product a colorless liquid with a slight odor.

Health Hazards: Corrosive, may cause skin burns and eye damage. May cause skin, eye, and respiratory system irritation. May be harmful if swallowed, in contact with skin, or inhaled.

Flammability Hazards: This product is not a flammable liquid.

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated, however release may cause adverse environmental effects.

US DOT Symbols:



EU and GHS Symbols:



Signal Word:

Danger!

2.1 GHS Labeling and Classification:

CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:

Index Number:

EC# 205-483-3 Annex VI # is 603-030-00-8

EC# 203-961-6 Annex VI # is 603-096-00-8

EC# 613-933-9, 500-221-7 This substance is not classified in the Annex VI

Substances not listed either individually or in group entries must be self classified.

Components Contributing to Classification:

Monoethanolamine, Glycol Ether DB, Ethoxylated Alcohol Mixture

2.2 Label Elements:**GHS Hazard Classifications:**

Acute Toxicity Category 4 Oral
 Acute Toxicity Category 4 Dermal
 Acute Toxicity Category 4 Inhalation
 Skin Corrosion Category 1B
 Eye Damage Category 1
 Aquatic Chronic Category 3

Hazard Statements:

H302 Harmful if swallowed
 H312 Harmful in contact with skin
 H332 Harmful if inhaled
 H314 Causes severe skin burns and eye damage
 H318 Causes serious eye damage
 H412 Harmful to aquatic life with long lasting effects

Prevention Statements:

P264 Wash thoroughly after handling.
 P260 Do not breathe dust/fume/gas/mists/vapours/spray.
 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.

Response Statements:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately call a POISON CENTER/Doctor.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P321 Specific treatment (see section 4 on this SDS).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.

Storage Statements:**Disposal Statements:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:**Symptoms of Overexposure by Route of Exposure:**

The most significant routes of overexposure for this product are by contact with skin, eyes, inhalation and ingestion. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May be harmful if inhaled. May cause respiratory Irritation.
 Skin Contact: Corrosive, may cause skin burns.
 Eye Contact: Corrosive, may cause damage to the eyes.
 Ingestion: May be harmful if swallowed.

Chronic: No data available.

Target Organs:

Acute: Eyes, Skin, Respiratory system
 Chronic: No data available.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS No.	EINECS No.	Hazard Classification
Monoethanolamine	7-13%	141-43-5	205-483-3	Skin Corr Cat 1B, Acute Tox Cat 4 (Oral, Dermal, Inhalation)
Glycol Ether DB	7-13%	112-34-5	203-961-6	Eye Irrit Cat 2
Ethoxylated Alcohol Mixture	1-5%	66455-15-0, 68551-12-2	613-933-9, 500-221-7	Acute Tox Cat 4 (Oral), Skin Irrit Cat 2, Eye Dam Cat 1, Aquatic Chronic Cat 2

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).
 Actual concentrations withheld as trade secret.

SECTION 4 - FIRST AID MEASURES**4.1 Description of First Aid Measures:****Eye Contact:**

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

Skin Contact:

Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

Inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

Ingestion:

If product is swallowed, call physician or poison center immediately. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Medical Conditions Generally Aggravated by Exposure:

Pre-existing skin or eye problems may be aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed:

Corrosive, may cause skin burns and eye damage.

4.3 Recommendations to Physicians:

Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES**5.1 Fire Extinguishing Materials:**

Use the following fire extinguishing materials:

Water Spray: Yes **Carbon Dioxide:** Yes
Foam: Yes **Dry Chemical:** Yes
Halon: Yes **Other:** Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures.

Explosive Sensitivity to Mechanical Impact:

No

Explosive Sensitivity to Static Discharge:

No

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

5.3 Special Fire-Fighting Procedures:

NFPA RATING SYSTEM		HMIS RATING SYSTEM									
Flammability Health 3 Reactivity 0 Other -		HAZARDOUS MATERIAL IDENTIFICATION SYSTEM HEALTH HAZARD (BLUE) 3 FLAMMABILITY HAZARD (RED) 0 PHYSICAL HAZARD (YELLOW) 0									
		PROTECTIVE EQUIPMENT <table><tr><td>EYES</td><td>RESPIRATORY</td><td>HANDS</td><td>BODY</td></tr><tr><td></td><td>See Sect 8</td><td></td><td>See Sect 8</td></tr></table>		EYES	RESPIRATORY	HANDS	BODY		See Sect 8		See Sect 8
EYES	RESPIRATORY	HANDS	BODY								
	See Sect 8		See Sect 8								
		For Routine Industrial Use and Handling Applications									
Hazard Scale: 0 = Minimum 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard											

SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:**Small Spills:**

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE**7.1 Precautions for Safe Handling:**

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

7.2 Storage and Handling Practices:

Keep in a well ventilated area and away from incompatibles.

7.3 Specific Uses:

See Section 1.2.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**8.1 Exposure Parameters:**

Ingredients	CAS No.	ACGIH TLV	OSHA PEL	NIOSH PEL
Monoethanolamine	141-43-5	3 ppm	3 ppm (6 mg/m ³)	3 ppm (8 mg/m ³)
Glycol Ether DB	112-34-5	10 ppm	Not Listed	Not Listed
Ethoxylated Alcohol Mixture	66455-15-0, 68551-12-2	Not Listed	Not Listed	Not Listed

8.2 Exposure Controls:**Ventilation and Engineering Controls:**

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:

Not required for properly ventilated areas.

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Eye Protection:

Safety glasses or goggles are required.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

Hand Protection:

Chemical resistant gloves are required to prevent skin contact.

If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

Body Protection:

Use body protect appropriate to task being performed.
 If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties:****Appearance (Physical State and Color):** Colorless Liquid**Odor:** Slight odor**Odor Threshold:** No data available**pH:** 12.5 – 13.5**Melting/Freezing Point:** No data available**Boiling Point:** No data available**Flash Point:** No data available**Evaporation Rate:** No data available**Flammability (Solid; Gas):** Not applicable**Upper/Lower Flammability or Explosion Limits:** No data available**Vapor Pressure (mm Hg @ 20°C (68° F):** No data available**Vapor Density:** No data available**Relative Density:** No data available**Specific Gravity:** 1**Solubility in Water:** Soluble**Weight per Gallon:** No data available**Partition Coefficient (n-octanol/water):** No data available**Auto-Ignition Temperature:** No data available**Decomposition Temperature:** No data available**Viscosity:** No data available**VOC:** No data available**9.2 Other Information:**

No data available

SECTION 10 - STABILITY AND REACTIVITY**10.1 Reactivity:**

No reactivity data available.

10.2 Stability:

Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions:

No data available.

10.4 Conditions to Avoid:

Contact with incompatibles.

10.5 Incompatible Substances:

Strong oxidizing agents and strong acids.

10.6 Hazardous Decomposition Products:

Thermal decomposition may yield carbon monoxide and carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects:****Toxicity Data:**

Monoethanolamine	141-43-5	LD50 – Oral, Rat	1,720 mg/kg
		LD50 – Dermal, Rabbit	1,015 mg/kg
Glycol Ether DB	112-34-5	LC50 Oral – Rat	7,291 mg/kg

Suspected Cancer Agent:

Ingredients within this product are not found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be cancer-causing agents by these agencies.

Irritancy:

Skin, eye, respiratory irritant.

Sensitization to the Product:

This product may cause skin sensitization.

Germ Cell Mutagenicity:	This product does not contain ingredients that are suspected to be a germ cell mutagenic.
Reproductive Toxicity:	This product does not contain ingredients that are expected to be a human reproductive toxicant.
Specific Target Organ Toxicity – Single Exposure:	Skin, eye, respiratory irritation.
Specific Target Organ Toxicity – Repeated Exposure:	No data available.
Aspiration Hazard:	Not expected to be an aspiration hazard.

SECTION 12 - ECOLOGICAL INFORMATION

<u>12.1 Toxicity</u>	No specific data available on this product.
<u>12.2 Persistence and Degradability:</u>	No specific data available on this product.
<u>12.3 Bioaccumulative Potential:</u>	No specific data available on this product.
<u>12.4 Mobility in Soil:</u>	No specific data available on this product.
<u>12.5 Results of PBT and vPvB Assessment:</u>	No specific data available on this product.
<u>12.6 Other Adverse Effects:</u>	No data available
<u>12.7 Water Endangerment Class:</u>	At present, there are no ecotoxicological assessments for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:	Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member States and Japan.
13.2 EU Waste Code:	Not determined

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:	UN2491
Proper Shipping Name:	Ethanolamine Solutions
Hazard Class Number and Description:	Class 8 – Corrosive
Packing Group:	III
DOT Label(s) Required:	Corrosive
North American Emergency Response Guidebook Number:	153

Note: This product meets the limited quantity exemption when packaged in containers less than 5 Liters. Consumer Commodity, ORM-D.

14.2 Environmental Hazards:

Marine Pollutant: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

None

14.4 International Air Transport Association Shipping Information (IATA):

This product is considered as dangerous goods.

14.5 International Maritime Organization Shipping Information (IMO):

This product is considered as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: No; Fire: No; Reactivity: No

U.S. CERCLA Reportable Quantity:

None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

This product does not contain Prop 65 chemicals at reportable concentrations.

15.2 Canadian Regulations:**Canadian DSL/NDSL Inventory Status:**

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product has been classified per WHMIS 2015 standards.

15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - ADDITIONAL INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. Glaze 'N Seal Products Inc. assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Glaze 'N Seal Products Inc. assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET