

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MF Glass Cleaner

PRODUCT USE: Glass Cleaner

MANUFACTURED FOR: Warsaw Chemical Holdings LLC.
P.O. Box 858
Warsaw, IN 46581

INFORMATION PHONE: Tel: 1-800-548-3396
Fax: 1-574-267-3884

EMERGENCY PHONE: INFOTRAC
1-800-535-5053 USA & Canada
352-323-3500 International

SECTION 2 - HAZARD(S) IDENTIFICATION

CLASSIFICATION: Eye Damage: Category 2A

PICTOGRAMS:



GHS ELEMENTS:

SIGNAL WORD: Warning

HAZARD STATEMENT(S): H319 | Causes serious eye irritation.

PRECAUTIONARY STATEMENT(S): P264 | Wash any exposed body parts thoroughly after handling.
P280 | Wear protective gloves/protective clothing/eye protection/face protection.
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.

ADDITIONAL PRECAUTIONS: None Known

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	FUNCTIONAL PURPOSE	PERCENT
2-Butoxyethanol	111-76-2	Solvent	1 - 5%
2-Propanol	67-63-0	Solvent	1 - 5%
Acetone	67-64-1	Solvent	< 1.0%
Alkyl Olefin Sulfonate	68439-57-6	Surfactant	< 1.0%
Nonylphenol ethoxylate	127087-87-0	Surfactant	< 1.0%
Acid Violet 54	Not Available	Colorant	< 1.0%
CMIT / MIT	55965-84-9	Preservative	< 1.0%

SECTION 4 - FIRST AID MEASURES

- EYES:** Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- SKIN:** Wash skin surfaces thoroughly after contact. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if irritation develops.
- INHALATION:** Move exposed person to fresh air. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing. Get medical attention immediately.
- INGESTION:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- GENERAL:** Physicians: No specific treatment. Treat symptomatically. Contact poison treatment specialist if large quantities have been inhaled or ingested.

See Section 11 for exposure symptoms.

SECTION 5 - FIRE FIGHTING MEASURES

- FLAMMABILITY:** In a fire or if heated, a pressure increase will occur and the container may burst.
- EXTINGUISHING MEDIA:** Use an extinguishing agent suitable for the surrounding fire.
- PROTECTIVE EQUIPMENT:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.
- ADDITIONAL INFORMATION:** Thermal decomposition products-carbon monoxide, sulfur oxides, metal oxide/oxides, halogenated compounds.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS:** No action should be taken involving individual risk or without suitable training. Isolate area. Avoid contact with material. Do not breathe vapors. Provide adequate ventilation. Wear proper personal protective equipment.
- ENVIRONMENTAL:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if the product reaches sewers, waterways or soil.
- CONTAINMENT/CLEANUP:** Stop leak if without risk. Move containers from spill area. Contain or absorb with inert dry material. Dispose of according to local regulations. See Section 1 for emergency contact information and 13 for waste disposal.

SECTION 7 - HANDLING AND STORAGE

- SAFE HANDLING:** Wear appropriate personal protective equipment (see Section 8). Eating

drinking and smoking should be prohibited. Do not get into eyes or on skin. Do not ingest. Keep containers tightly closed. Do not reuse container.

SAFE STORAGE:

Store in accordance with local regulations. Store in original container away from foods, drink and incompatible materials. Keep container tightly closed. Do not store unlabeled. Use appropriate containment.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Apply technical measures to comply with occupational exposure limits. Mechanical ventilation, eyewash stations, showers where necessary.

EYE PROTECTION:

Safety eye-wear/face shield complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

RESPIRATORY PROTECTION:

Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessity. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product & the safe working limits of the chosen respirator.

HAND PROTECTION:

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

SKIN PROTECTION:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

COMPONENT:

ACGIH TWA ppm

OSHA/NIOSH STEL ppm

OSHA/ACGIH STEL mg/m3

2-Butoxyethanol

20.00

None

None

2-Propanol

200.00

400.00

None

Acetone

500.00

None

750.00

Alkyl Olefin Sulfonate

None

None

None

Nonylphenol ethoxylate

10.00

None

None

Acid Violet 54

None

None

None

CMIT / MIT

None

None

None

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Liquid

UPPER EXPLOSIVE LIMITS:

NA

COLOR:

Red

LOWER EXPLOSIVE LIMITS:

NA

ODOR:

Solvent

VAPOR PRESSURE:

NA

ODOR THRESHOLD:

NA

VAPOR DENSITY:

NA

PH:

10.1 - 11.4

RELATIVE DENSITY:

NA

MELTING POINT:

NA

SOLUBILITY:

Completely Water Soluble

FREEZING POINT:

28.00 F

PARTITION COEFFICIENT:

NA



**Warsaw
Chemical**

HOLDINGS LLC

P.O. BOX 858 • Warsaw, Indiana 46581
800-548-3396 • www.warsaw-chem.com

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BOILING POINT:	NA	AUTO-IGNITION TEMPERATURE:	NA
FLASH PT METHOD:	NA	DECOMPOSITION TEMPERATURE:	NA
FLASH POINT:	NA	SPECIFIC GRAVITY:	0.99500
EVAPORATION RATE:	NA	% VOLATILE:	10.00000
FLAMMABILITY:	Nonflammable	VISCOSITY (cst):	NA

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY:	HAZARDOUS DECOMPOSITION PRODUCTS
CHEMICAL STABILITY:	Stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	Non-reactive.
CONDITIONS TO AVOID:	Excessive heat or open flame.
INCOMPATIBLE MATERIALS:	Avoid contact with acidic materials and strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Under normal conditions, none are known.

SECTION 11 - TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY:	Inhalation	Absorption	Ingestion
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ACUTE EXPOSURE HAZARDS:

EYE CONTACT:	Irritation, stinging, redness, burns.
DERMAL:	Irritation, burns upon prolonged exposure.
ORAL:	Nausea, vomiting.
INHALATION:	No expected route of entry. Irritation.

2-Butoxyethanol (CAS No. 111-76-2)
Oral LD50: Rat 470 mg/kg

2-Propanol (CAS No. 67-63-0)
Oral LD50: Rat 5045 mg/kg

Acetone (CAS No. 67-64-1)
Oral LD50: 5800 mg/kg rat
Dermal LD50: 7426 mg/kg
Inhalation LC50: 76 mg/L rat

Alkyl Olefin Sulfonate (CAS No. 68439-57-6)
Oral LD50: Rat >2000 mg/kg



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Dermal LD50: Rabbit >2000 mg/kg

Nonylphenol ethoxylate (CAS No. 127087-87-0)

Oral LD50: 960-3980 mg/kg rat

Dermal LD50: 2,000-2,991 mg/kg rabbit

Inhalation LC50: 1.15 mg/L (4 hr) rat

CMIT / MIT (CAS No. 55965-84-9)

Oral LD50: 66mg/kg rabbit

Dermal LD50: 141mg/kg rat

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY: No data available.

PERSISTENCE & DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available.

OTHER ADVERSE EFFECTS: No data available.

2-Butoxyethanol (CAS No. 111-76-2)

Fish LC50: 1250mg/L, 96h, Inland Solverside

Crustacean LC50: Daphnia 1818 mg/L 24h

2-Propanol (CAS No. 67-63-0)

Fish LC50: Minnow 9640 mg/L 96h

Acetone (CAS No. 67-64-1)

Fish LC50: 6100 mg/L rainbow trout

Alkyl Olefin Sulfonate (CAS No. 68439-57-6)

Fish LC50: Fish 2.5-5 mg/L, 96 hrs

Crustacean LC50: Daphnia 4.48 mg/L, 48 hrs

Algae EC50: Algae 45 mg/L, 72 hrs

Nonylphenol ethoxylate (CAS No. 127087-87-0)

Fish LC50: 3.8-6.2 mg/l (96 hr) fathead minnow

CMIT / MIT (CAS No. 55965-84-9)

Fish LC50: 0.22mg/L 96h trout

Crustacean LC50: 6.76mg/L 48h daphnia

SECTION 13 - DISPOSAL CONSIDERATION

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of the product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

DOT (US)

UN NUMBER:

NA

SHIPPING NAME: NA
 TECHNICAL NAME: NA
 HAZARD CLASS: NA
 PACKAGING GROUP: NA

SECTION 15 - REGULATORY INFORMATION

SARA 313 COMPONENTS	CAS NO.	% LESS THAN
2-Butoxyethanol	111-76-2	1 - 5%
2-Propanol	67-63-0	1 - 5%
CALIFORNIA PROP. 65 COMPONENTS	CAS NO.	% LESS THAN
2-Butoxyethanol	111-76-2	1 - 5%

This product can expose you to Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm..

RTK: PA, NJ, MA

This product contains a chemical that is at or below California Proposition 65's "safe harbor level" for carcinogenicity as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

SECTION 16 - OTHER INFORMATION

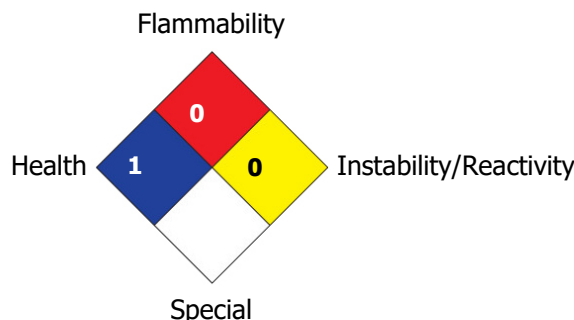
HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.)

Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	A

Caution: HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks and 4 representing significant hazards or risks.

- A Safety Glasses
- B Safety Glasses, Gloves
- C Safety Glasses, Gloves, Apron
- D Face Shield, Gloves, Apron
- E Safety Glasses, Gloves, Dust Respirator
- F Safety Glasses, Gloves, Apron, Dust Respirator
- G Safety Glasses, Gloves, Vapor Respirator
- H Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
- I Safety Glasses, Gloves, Dust & Vapor Respirator
- J Splash Goggles, Gloves, Apron, Dust & Vapor Respirator
- K Airline Hood or Mask, Gloves, Full Suit, Boots
- X Consult your supervisor for special handling directions

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)



NFPA warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health, and reactivity hazards of chemicals.



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In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose. All materials may represent unknown hazards and should be used with caution.