

MATERIAL SAFETY
DATA SHEET

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DIVISION: HOME AND COMMERCIAL CARE DIVISION

TRADE NAME:

3M Brand GLASS CLEANER CONCENTRATE (# 1L)

ID NUMBER/U.P.C.: XN-1015-1336-6 - - 70-0705-4312-2 00-48011-19201-2
 70-0705-4696-8 00-48011-19166-4 70-0705-4902-0 00-48011-19306-4
 70-0705-8965-3 00-48011-19968-4 70-0707-1404-6 00-48011-20792-1

ISSUED: FEBRUARY 28, 1997

SUPERSEDES: AUGUST 15, 1996

DOCUMENT: 06-2095-5

1. INGREDIENT	C.A.S. NO.	PERCENT
WATER	7732-18-5	60 - 90
SURFACTANT (New Jersey Trade Secret Reg #5887P)	TradeSecret	5 - 10
ACETIC ACID	64-19-7	1 - 5
FRAGRANCE	Unknown	1 - 5
ALKYL GLUCOPYRANOSE OLIGOMERS	110615-47-9	1 - 5
GLUCOPYRANOSE GLYCOSIDE OLIGOMERS	68515-73-1	1 - 5
ALKYL DIETHYLENE GLYCOL ETHER	112-34-5	1 - 5

NOTE: IN CASE OF EMERGENCY: THE NUMBER AT THE TOP OF THIS PAGE PROVIDES 24
 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT.

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING
 REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY
 RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372:

ALKYL DIETHYLENE GLYCOL ETHER

2. PHYSICAL DATA

BOILING POINT:..... N/D
 VAPOR PRESSURE:..... N/D
 VAPOR DENSITY:..... N/D
 EVAPORATION RATE:..... N/D
 SOLUBILITY IN WATER:..... complete
 SP. GRAVITY:..... ca. 1.0 Water = 1
 PERCENT VOLATILE:..... ca. 90 %
 pH:..... ca. 3.5
 VISCOSITY:..... ca. 10 CPS
 MELTING POINT..... N/A
 APPEARANCE AND ODOR: Liquid, dark blue color; strong fragrance

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 200 F T.C.C.

FLAMMABLE LIMITS - LEL: N/D

FLAMMABLE LIMITS - UEL: N/D

AUTOIGNITION TEMPERATURE: ... N/D

EXTINGUISHING MEDIA:

Water spray, Carbon dioxide, Dry chemical, Foam, Alcohol-type foam

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

No unusual fire or explosion hazards are anticipated. See Hazardous Decomposition section for products of combustion.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 1 REACTIVITY: 0

UNUSUAL REACTION HAZARD: none

OSHA FIRE HAZARD CLASS: Class IIIB Combustible Liquid

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

None known.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Irritant Vapors or Gases.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. In the U.S.A., call (612) 733-1110 or (612) 733-6100 for 24-hour spill assistance. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Small quantities (less than 5 gal.(19 L)) may be discharged to a wastewater treatment system. Incinerate in a permitted hazardous waste incinerator. Dispose of completely absorbed waste product in a hazardous waste facility.

ENVIRONMENTAL DATA:

A Product Environmental Data Sheet (PED) is available.

The use of this product is expected to have no significant environmental impact. Most components of this product will eventually degrade in the environment.

REGULATORY INFORMATION:

Volatile Organic Compounds: ca. 10 %.

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5. ENVIRONMENTAL INFORMATION (continued)

VOC Less H2O & Exempt Solvents: ca. 10 %.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

TSCA: All components used in the manufacture of this material are in compliance with the US TSCA inventory.

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID**EYE CONTACT:**

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:

Immediately flush skin with large amounts of water. Remove contaminated clothing. If irritation persists, call a physician. Wash contaminated clothing before reuse.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION**EYE PROTECTION:**

Avoid eye contact. Wear vented goggles.

** When used as directed, eye contact with this material is not expected to occur.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber. Use one or more of the following personal protection items as necessary to prevent skin contact: coveralls

** When used as directed, skin contact with this material is not expected to occur.

VENTILATION PROTECTION:

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation at transfer points. If exhaust ventilation

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7. PRECAUTIONARY INFORMATION (continued)

is not adequate, use appropriate respiratory protection.

** When used as directed, no special ventilation is required.E

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray. Avoid breathing of airborne material. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask organic vapor and acid gas respirator

** When used as directed, respiratory protection is not required.

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating. Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep container in well-ventilated area.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition. Combustible liquid and vapor.

OTHER PRECAUTIONARY INFORMATION:

** NOTE: This material is intended to be diluted only with the 3M Twist 'N Fill Chemical Dispenser.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
WATER	NONE	NONE	NONE	NONE	
SURFACTANT (New Jersey Trade Secret Reg #5887P)	NONE	NONE	NONE	NONE	
ACETIC ACID	10	ppm	TWA	ACGIH	
ACETIC ACID	15	ppm	STEL	ACGIH	
ACETIC ACID	10	ppm	TWA	OSHA	
FRAGRANCE	NONE	NONE	NONE	NONE	
ALKYL GLUCOPYRANOSE OLIGOMERS	NONE	NONE	NONE	NONE	
GLUCOPYRANOSE GLYCOSIDE OLIGOMERS	NONE	NONE	NONE	NONE	
ALKYL DIETHYLENE GLYCOL ETHER	35	ppm	TWA	CMRG	

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

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8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Severe Skin Irritation: signs/symptoms can include redness, swelling, itching, dryness, cracking, blistering, and pain.

May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Prolonged or repeated exposure may cause:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

INHALATION:

Single overexposure, above recommended guidelines, may cause:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

Lung Damage: signs/symptoms can include coughing, difficulty breathing, wheezing, tightness in chest, congestion, and coughing up of blood.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

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8. HEALTH HAZARD DATA

(continued)

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

OTHER HEALTH HAZARD INFORMATION:

HMIS: HEALTH=2 /FLAMMABILITY=1 /REACTIVITY=0 / PERSONAL PROTECTION=B

SECTION CHANGE DATES

HEADING

SECTION CHANGED SINCE AUGUST 15, 1996 ISSUE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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