

MATERIAL SAFETY
DATA SHEET

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DIVISION: HOME AND COMMERCIAL CARE DIVISION

TRADE NAME:

3M Brand GLASS CLEANER Ready-to-Use
(Product No. 30, Twist 'n Fill (tm) System)

ISSUED: MARCH 3, 1997

SUPERSEDES: DECEMBER 5, 1996

DOCUMENT: 06-6879-8

| 1. INGREDIENT | C.A.S. NO. | PERCENT |
|---------------------------------|------------|---------|
| WATER | 7732-18-5 | > 98 |
| HYDROXYALKYL AMINE OXIDES | 68478-65-9 | < 1 |

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.

2. PHYSICAL DATA

BOILING POINT:..... ca. 212 F
 VAPOR PRESSURE:..... N/D
 VAPOR DENSITY:..... N/D
 EVAPORATION RATE:..... ca. 1 Water = 1
 SOLUBILITY IN WATER:..... complete
 SP. GRAVITY:..... ca. 1 Water = 1
 PERCENT VOLATILE:..... ca. 100 %
 pH:..... ca. 8
 VISCOSITY:..... < 100 CPS
 MELTING POINT..... N/A
 APPEARANCE AND ODOR: Liquid, clear, light blue color; mild fragrance

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 212 F
 FLAMMABLE LIMITS - LEL:..... N/D
 FLAMMABLE LIMITS - UEL:..... N/D
 AUTOIGNITION TEMPERATURE: ... N/D
 EXTINGUISHING MEDIA:
 Water, Carbon dioxide, Dry powder, Foam
 SPECIAL FIRE FIGHTING PROCEDURES:
 Not applicable
 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: 1 FIRE: 1 REACTIVITY: 0
 UNUSUAL REACTION HAZARD: none

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4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Not applicable.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Discharge spent solutions and small quantities (less than 5 gal.(19 L)) to a wastewater treatment system.

ENVIRONMENTAL DATA:

A Product Environmental Data Sheet (PED) is available.

See MSDS for product concentrate.

REGULATORY INFORMATION:

Volatile Organic Compounds: < 1 %.
VOC Less H2O & Exempt Solvents: < 1 %.

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

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. Get immediate medical attention.

SKIN CONTACT:

Flush skin with large amounts of water. If irritation persists, get medical attention.

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.

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7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Avoid eye contact with vapor, spray, or mist.

SKIN PROTECTION:

Avoid skin contact.

VENTILATION PROTECTION:

Use in a well-ventilated area. Use with adequate dilution ventilation.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

RECOMMENDED STORAGE:

Keep container closed when not in use. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed.

OTHER PRECAUTIONARY INFORMATION:

NOTE: The above precautionary information presumes that this ready-to-use product has been diluted and dispensed from a TWIST'n FILL (tm) Chemical Dispenser.

HMS HAZARD RATINGS: HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0
PERSONAL PROTECTION: X (See precautions, section 7.)

| INGREDIENTS | EXPOSURE LIMITS | | TYPE AUTH | SKIN* |
|---------------------------------|-----------------|------|-----------|-------|
| | VALUE | UNIT | | |
| WATER | NONE | NONE | NONE NONE | |
| HYDROXYALKYL AMINE OXIDES | NONE | NONE | NONE NONE | |

* 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:

- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level
- NONE: None Established

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8. HEALTH HAZARD DATA

EYE CONTACT:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

INHALATION:

Prolonged or repeated exposure may cause:

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

IF SWALLOWED:

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

SECTION CHANGE DATES

| HEADING | SECTION CHANGED SINCE | DECEMBER 5, 1996 ISSUE |
|---------|-----------------------|------------------------|
|---------|-----------------------|------------------------|

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

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