MATERIAL SAFETY 3M DATA SHEET 3M Center St. Paul, Minnesota 55144-1000 1-800-364-3577 or (651) 737-6501 (24 hours) Copyright, 2001, Minnesota Mining and Manufacturing Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: 1) the information is copied in full with no changes unless prior agreement is obtained from 3M, and 2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. DIVISION: COMMERCIAL CARE DIVISION TRADE NAME: 3M Brand GENERAL PURPOSE CLEANER CONCENTRATE (Product No. 8, Twist 'n Fill (tm) System) ID NUMBER/U.P.C.: 70-0705-4322-1 00-48011-19211-1 70-0705-4323-9 00-48011-19212-8 70-0707-1418-6 00-48011-23006-6 70-0707-1419-4 00-48011-23007-3 70-0708-3998-3 00-48011-19211-1 70-0708-4008-0 00-48011-19212-8 70-0710-0967-7 00-48011-23908-3 70-0710-0968-5 00-48011-23891-8 ISSUED: April 10, 2001 SUPERSEDES: September 21, 2000 DOCUMENT: 06-2098-9 _____ C.A.S. NO. PERCENT 1. INGREDIENT _____ 40 - 70 - 40 HYDROXYALKYL AMINE OXIDES..... 68478-65-9 15
 ISOPROPYL ALCOHOL......
 67-63-0
 5

 2-ETHYL-HEXYLOXYETHANOL.....
 1559-35-9
 5
- 10 - 10 IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 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: 2-ETHYL-HEXYLOXYETHANOL _____ 2. PHYSICAL DATA _____ BOILING POINT:..... ca. 200 F VAPOR PRESSURE:..... N/D VAPOR DENSITY:..... 2.1 Air=1 (Isopropyl alcohol) EVAPORATION RATE:..... ca. 1 Water=1 SOLUBILITY IN WATER:..... complete SPECIFIC GRAVITY:..... ca. 1.0 Water=1 PERCENT VOLATILE:.... ca. 75 $\ensuremath{\$}$ Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: 3M Brand GENERAL PURPOSE CLEANER CONCENTRATE (Product No. 8, Twist 'n Fill (tm) System) April 10, 2001 PAGE 2 _____ 2. PHYSICAL DATA (continued) _____ pH:..... ca. 8 VISCOSITY:..... < 100 centipoise MELTING POINT: N/D APPEARANCE AND ODOR: Liquid, red color; citrus fragrance _____ 3. FIRE AND EXPLOSION HAZARD DATA _____ FLASH POINT:..... ca. 102 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: 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: See Hazardous Decomposition section for products of combustion. Closed containers exposed to heat from fire may build pressure and explode. NFPA HAZARD CODES: HEALTH: 2 FIRE: 2 REACTIVITY: 0 UNUSUAL REACTION HAZARD: none OSHA FIRE HAZARD CLASS: Class II Combustible Liquid _____ 4. REACTIVITY DATA _____ STABILITY: Stable INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID: Strong Oxidizing Agents. HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur. _____

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MSDS: 3M Brand GENERAL PURPOSE CLEANER CONCENTRATE (Product No. 8, Twist 'n Fill (tm) System) April 10, 2001 PAGE 3 _____ 4. REACTIVITY DATA (continued) _____ HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, 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. Ventilate area. Extinguish all ignition sources. Contain spill. Evacuate unprotected personnel from hazard area. Cover with absorbent material. Collect using nonsparking tools. Clean up residue with water. Place in an approved metal container. Seal the container. RECOMMENDED DISPOSAL: Dispose of waste product in a hazardous waste facility. Disposal alternative: Incinerate in a permitted hazardous waste incinerator. ENVIRONMENTAL DATA: A Product Environmental Data Sheet (PED) is available. The use of this product is expected to have no significant environmental impact. All components will eventually degrade in the environment. **REGULATORY INFORMATION:** Volatile Organic Compounds: ca. 15 %. VOC Less H2O & Exempt Solvents: ca. 15 %. Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity. U.S. EPA Hazardous Waste Number = D001 (Ignitable) TSCA: All components used in the manufacture of this material are in compliance with the US TSCA inventory. EPCRA HAZARD CLASS: FIRE HAZARD: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes _____

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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 wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.	l	
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 physicia	ın.	
7. PRECAUTIONARY INFORMATION		
EYE PROTECTION: NOTE: When used as directed and diluted and dispensed with a TWIST' FILL (tm) Chemical Dispenser, eye contact with the concentrate is r expected to occur. Avoid eye contact. The following should be wor alone or in combination, as appropriate, to prevent eye contact: Wear vented goggles. Wear full-face shield.	not	
SKIN PROTECTION: NOTE: When used as directed and diluted and dispensed with a TWIST' FILL (tm) Chemical Dispenser, skin contact with the concentrate is not expected to occur. Avoid skin contact. Wear appropriate glove 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: apron, coveralls.		
RECOMMENDED VENTILATION: NOTE: When used as directed and diluted and dispensed with a TWIST' FILL (tm) Chemical Dispenser, special ventilation is not required. Use with appropriate local exhaust ventilation. Provide appropriat local exhaust ventilation at transfer points. Use in a well- ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.		
RESPIRATORY PROTECTION: NOTE: When used as directed and diluted and dispensed with a TWIST FILL (tm) Chemical Dispenser, respiratory protection is not require Avoid breathing of vapors, mists or spray. Avoid breathing of		
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7. PRECAUTIONARY INFORMATION (continued)			
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 respirator, full-face organic vapor respirator.			
PREVENTION OF ACCIDENTAL INGESTION: Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.			
RECOMMENDED STORAGE: Store away from heat. Keep container closed when not in use. Keep out of the reach of children.			
FIRE AND EXPLOSION AVOIDANCE: Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition. Prevent all sources of ignition.			
OTHER PRECAUTIONARY INFORMATION: Not intended for consumer sale or use. This product is not intended to be used without prior dilution as specified on the product label.			
HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0 PERSONAL PROTECTION: X (See precautions, section 7.)			
EXPOSURE LIMITS			
INGREDIENT VALUE UNIT TYPE AUTH SKIN*			
WATER NONE NONE NONE NONE HYDROXYALKYL AMINE OXIDES NONE NONE NONE NONE ISOPROPYL ALCOHOL 400 PPM TWA ACGIH			

ISOPROPYL ALCOHOL..... 400 500 400 PPM TWA ISOPROPYL ALCOHOL..... PPM STEL ACGIH 400 PPM ISOPROPYL ALCOHOL..... TWA OSHA 500 ISOPROPYL ALCOHOL..... PPM STEL OSHA 2-ETHYL-HEXYLOXYETHANOL..... 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:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

- NONE: None Established

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8. HEALTH HAZARD DATA		
EYE CONTACT: Severe Eye Irritation: signs/symptoms can include redness, swelling pain, tearing, cloudy appearance of the cornea, impaired vision and possible permanently impaired vision.		
SKIN CONTACT: Severe Skin Irritation: signs/symptoms can include redness, swellin itching, dryness, cracking, blistering, and pain.	g,	
INHALATION: Prolonged or repeated exposure may cause:		
Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reacti time, slurred speech, giddiness and unconsciousness.	on	
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.		
Ingestion may cause:		
Gastrointestinal Effects: signs/symptoms generally will includ abdominal pain.	e	
OTHER HEALTH HAZARD INFORMATION: A Product Toxicity Summary Sheet is available.		
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: medical conditions, if any, known to be aggravated by exposure to this product are indicat in the appropriate portions of the Health Hazard Data section of th data sheet.		
CARCINOGENS: components of this product, if any, known to cause, or suspected of causing, cancer as determined by OHSA, IARC, or NTP ar described in the Health Hazard Data section of this data sheet in accord with the OHSA Hazard Communications Standard, 29 CFR 1910.12	e	
SECTION CHANGE DATES		
HEADING SECTION CHANGED SINCE September 21, 2000 ISSUE ENVIRONMENTAL INFO. SECTION CHANGED SINCE September 21, 2000 ISSUE		
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