

MATERIAL SAFETY DATA SHEET      3M  
 3M Center  
 St. Paul, Minnesota  
 55144-1000  
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DIVISION: ENGINEERED ADHESIVES

TRADE NAME:

3M(TM) Citrus Base Industrial Cleaner (Bulk)

ID NUMBER/U.P.C.:

62-4456-6530-0 00-21200-85857-4 62-4456-7530-9 00-21200-85858-1  
 62-4456-8530-8 00-21200-85859-8 62-4456-9530-7 00-21200-85860-4

ISSUED: May 30, 2001

SUPERSEDES: March 08, 2001

DOCUMENT: 11-6553-9

1. INGREDIENT	C.A.S. NO.	PERCENT
D-LIMONENE.....	5989-27-5	40.0 - 50.0
PROPYLENE GLYCOL TERT-BUTYLETHER.....	57018-52-7	40.0 - 50.0
TRIPROPYLENE GLYCOL ETHER.....	20324-33-8	5 - 10
NONYLPHENOL GLYCOL ETHER.....	26027-38-3	5 - 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.  
 The components of this product are in compliance with the chemical  
 notification requirements of TSCA.

2. PHYSICAL DATA

BOILING POINT:..... 340.00 F  
 VAPOR PRESSURE:..... 1.6000 mmHg  
   @ 68F  
 VAPOR DENSITY:..... > 1.00 Air=1  
 EVAPORATION RATE:..... N/D  
 SOLUBILITY IN WATER:..... moderate  
 SPECIFIC GRAVITY:..... 0.860 Water=1  
 PERCENT VOLATILE:..... 85 - 95 % by wt  
 pH:..... N/A  
 VISCOSITY:..... < 100.0 centipoise  
 MELTING POINT:..... N/D

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

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2. PHYSICAL DATA (continued)

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APPEARANCE AND ODOR:  
liquid, transparent, citrus odor

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3. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT:..... 112.00 F  
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. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Water or foam may cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers exposed to heat from fire may build pressure and explode.

NFPA HAZARD CODES: HEALTH: 1 FIRE: 2 REACTIVITY: 0  
UNUSUAL REACTION HAZARD: none

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4. REACTIVITY DATA

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STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Strong Oxidizing Agents.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide.

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5. ENVIRONMENTAL INFORMATION

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SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Extinguish all ignition sources. Contain spill. Cover with inorganic absorbent material. Collect spilled material. Collect using non-sparking tools. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:

Incinerate in an industrial or commercial facility. Dispose of completely absorbed waste product in a hazardous waste facility. Reclaim if feasible.

ENVIRONMENTAL DATA:

No data available.

REGULATORY INFORMATION:

Volatile Organic Compounds: 775.00 gms/liter.  
VOC Less H<sub>2</sub>O & Exempt Solvents: ca. 775 gms/liter calculated per SCAQMD rule 443.1.

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. Empty containers are hazardous waste by U.S. EPA criteria. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

EPCRA HAZARD CLASS:

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

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6. SUGGESTED FIRST AID

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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:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

IF SWALLOWED:

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

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7. PRECAUTIONARY INFORMATION  
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EYE PROTECTION:

Avoid eye contact. Wear safety glasses with side shields.

SKIN PROTECTION:

Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber, neoprene, nitrile rubber, polyvinyl alcohol, fluoroelastomer (Viton).

RECOMMENDED VENTILATION:

Use in a well-ventilated area.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors. 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.

PREVENTION OF ACCIDENTAL INGESTION:

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

RECOMMENDED STORAGE:

Store in a cool place. 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:

Not intended for consumer sale or use.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
D-LIMONENE.....	30	PPM	TWA	AIHA	
PROPYLENE GLYCOL TERT-BUTYLETHER.....	NONE	NONE	NONE	NONE	
TRIPROPYLENE GLYCOL ETHER.....	NONE	NONE	NONE	NONE	
NONYLPHENOL GLYCOL ETHER.....	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 Guideline

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
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- NONE: None Established

B. HEALTH HAZARD DATA

EYE CONTACT:

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

SKIN CONTACT:

Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

INHALATION:

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.

IF SWALLOWED:

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

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	ISSUE
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