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MATERIAL SAFETY DATA SHEET

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1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: 3M BRAND CITRUS BASE CLEANER

Product ID: CS-0406-6966-8 CS-0406-7035-1 CS-0406-6967-6 CS-0406-2207-1
CS-0406-2208-9 CS-0406-2209-7 CS-0406-2210-5 CS-0406-2211-3
CS-0406-7051-8 CE-1006-9681-0

Intended Use of Product:

Cleaner; Division: 3M CANADA COMPANY

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percentage
D-LIMONENE	5989-27-5	85 - 95
Polypropylene glycol ether	Trade Secret	3 - 7
Polyoxyethylene glycol	Trade Secret	3 - 7

NOTE: Polypropylene glycol ether is a non-hazardous Trade Secret material according to WHMIS criteria.

Polyoxyethylene glycol is a non-hazardous Trade Secret material according to WHMIS criteria.

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

3 HAZARDS IDENTIFICATION

Critical Hazards: Combustible liquid and vapour.

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. See Sections 7 and 11 for further information.

4 FIRST AID MEASURES

Instructions for Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Get medical attention.

5 FIRE FIGHTING MEASURES

Lower Explosive Limit (%): Not Available

Upper Explosive Limit (%): Not Available

Autoignition temperature: 237 C (D-LIMONENE)

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:

Combustible liquid and vapour. Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Carbon monoxide - During Combustion;

Carbon dioxide - During Combustion;

Unusual Fire and Explosion Hazards

None known.

Fire Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health	1
NFPA: Fire	1
NFPA: Reactivity	0
NFPA: Unusual Reaction Hazard	none

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Spill Response:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in

accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For

larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person.

Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Storage Requirements: No data available.

Incompatible Materials:

Store away from acids;
Store away from heat;
Store out of direct sunlight.
Store away from oxidizing agents.
Avoid temperatures above: 171 C
Sparks and/or Flames;

Ventilation:

No data available.

Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes.

Explosion Prevention:

Combustible liquid and vapour. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Use Instructions:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapours, mists or spray. Avoid eye contact with vapours, mists, or spray.

Avoid contact with oxidizing agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection

Eye Protection: Avoid eye contact with vapours, mists, or spray. The following should be worn alone or in combination, as appropriate, to prevent eye contact: **"Indirect vented goggles"**

Hand Protection: Wear appropriate gloves when handling this material. The following glove material(s) are recommended: *Nitrile Rubber; Polyvinyl Alcohol; Fluoroelastomer (Viton);*

Skin Protection:

Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Respiratory Protection: Avoid breathing of vapours, mists or spray. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half facepiece or fullface air-purifying respirator with organic vapor cartridges

Ingestion (Prevention): Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep out of the reach of children.

Recommended Ventilation: Use in a well-ventilated area.

Ingredient Exposure Data

D-LIMONENE	(5989-27-5)
LD50 (rat, oral)	4400 mg/kg
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	No data available.
Polypropylene glycol ether	(Trade Secret)
Specific Ingredient Data	No data available.
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	No data available.
Polyoxyethylene glycol (Trade Secret)	
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	No data available.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical form,Color,Odour:	Liquid; straw yellow; citrus odour;
Odour Threshold:	No data available.
pH:	Not Available
Boiling point/boiling range:	171 - 189 C
Melting point/melting range:	Not applicable
Vapour pressure:	< 2 mmHg at 20 C
Water Solubility:	No data available.
Specific gravity:	0.85 Water=1 at 25 C
Vapour density:	> 1 Air=1
Volatile organic compounds:	Not Available
Evaporation rate:	< 1
Viscosity:	Not Available
Percent Volatile:	Not Available

10 STABILITY AND REACTIVITY

Conditions to Avoid:

Store out of direct sunlight.

Heat; Avoid temperatures above: 171 C

Sparks and/or Flames;

Materials to Avoid:

Strong acids;

Strong oxidizing agents;

Hazardous Decomposition:

Carbon monoxide - During Combustion;

Carbon dioxide - During Combustion;

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact: Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Carcinogenicity: No data available.

Mutagenicity: No data available.

Reproductive Effects: No data available.

Component Based Information: No data available.

Product Based Information: No data available.

12 ECOLOGICAL INFORMATION

Environmental Data: Persistence/Biodegradability:

The components labeled 'readily biodegradable' are expected to fully degrade in wastewater treatment and in most aerobic water or soil environments. BIOWIN, a model developed by Syracuse Research Corporation, indicates the components labeled 'BIOWIN readily' are likely to be readily biodegradable. Biodegradation is expected to be complete in wastewater treatment and rapid in the environment.

(3M ranks biodegradability on BIOWIN linear & non-linear probabilities: 'Readily' biodegradable - both >0.60; 'Inherently' - both >0.40 & one or both <0.60; 'Unreliable' - one <0.40 & the other >0.60; 'Non or slowly' - one or both <0.40 & both <0.60.) The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Bioaccumulation Potential: The components labeled 'Log Kow <3' have measured or calculated log Kow values <3 indicating they are unlikely to bioconcentrate to high concentrations in aquatic organisms by partitioning into lipid tissues. The components labeled 'Log Kow > or = 3' have measured or calculated log Kow values of > or = 3 indicating they have a potential to bioconcentrate to high concentrations in aquatic organisms by partitioning into lipid tissues.

Ecotoxicity Data:

There is insufficient component information to calculate the wastewater treatment system effects of this product. This product is estimated to be very toxic to aquatic organisms (0.1 mg/L < Lowest LC50, EC50, or IC50 < or = 1 mg/L). The estimate assumes no synergistic, antagonistic or nonadditive effects. Product toxicity was estimated using the following equation: $(1/\text{Product LC50, EC50, or IC50}) = \text{SUM}(f_i/l_i)$ from $i = 1$ to $i = n$ for f_i = fraction of component i in product, l_i = lowest LC50, EC50, IC50 of component i , n = number of components in product. Not determined.

Ecofate Data: Not determined.

Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts. Labeled components: Readily Biodegradable: Nonionic Surfactant (Trade Secret), Nonionic Surfactant (Trade Secret) BIOWIN readily: D-limonene (5989-27-5) Log Kow < 3: Nonionic Surfactant (Trade

Secret), Nonionic Surfactant (Trade Secret) Log Kow > 3:

D-limonene (5989-27-5) EC compliance: Nonionic Surfactant (Trade Secret), Nonionic Surfactant (Trade Secret), D-limonene (5989-27-5) Other Effects and Information: Take precautions to prevent direct release of this product to the environment.

13 DISPOSAL CONSIDERATIONS

Product as Sold: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

Product Packaging: No data available.

Special Instructions: Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

Transportation of Dangerous Goods

TDG Classification: Non-Regulated: TDGR Section 1.33 Regulated by Air and Ocean
For Sku# CE-1006-9681-0 Unlikely to ship this product.

Special Information:: Contact 3M for more information.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations.

3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. **The original 3M package is certified for Canadian ground shipment only.** If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

International Dangerous Goods Classification

15 REGULATORY INFORMATION

WHMIS Classification: B3, D2B

NOTE: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

AICS - Australian Inventory of Chemical Substances

DSL - Domestic Substances List (Canada)

CICS - Chinese Inventory of Chemical Substances

KECI - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

16 OTHER INFORMATION

Reason for Reissue:

The following Sections and topics have been updated or revised:

Added French translation to MSDS

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.

User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. ---End---