



Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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SECTION 1: Identification

1.1. Product identifier

3M™ Food Service Degreaser Concentrate (Product No. 7, 3M™ Chemical Management Systems)

Product Identification Numbers

| ID Number | UPC | ID Number | UPC |
|----------------|------------------|----------------|-------------------|
| 61-0000-6330-7 | | 61-0000-6331-5 | |
| 61-0000-6371-1 | | 61-0000-6372-9 | |
| 61-0000-6406-5 | | 70-0708-3996-7 | 00-48011-23347-0 |
| 70-0708-3997-5 | 00-48011-23346-3 | 70-0710-0965-1 | 00-48011-23906-9 |
| 70-0710-0966-9 | 00-48011-23907-6 | 70-0716-5877-0 | 000-51125-85828-1 |
| 70-0716-8285-3 | 00-48011-23347-0 | 70-0716-8286-1 | 00-48011-23346-3 |
| 70-0716-8293-7 | 00-48011-23906-9 | 70-0716-8294-5 | 00-48011-23907-6 |

7000027572, 7000052114, 7000042870, 7010315341, 7100052540, 7010385258, 7010315342, 7010385964, 7010328499, 7010364141, 7010364124, 7010328517

1.2. Recommended use and restrictions on use

Recommended use

Removes food and oily soils, Hard Surface Cleaner

1.3. Supplier's details

| | |
|----------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Commercial Solutions Division |
| ADDRESS: | 3M Center, St. Paul, MN 55144-1000, USA |
| Telephone: | 1-888-3M HELPS (1-888-364-3577) |

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Acute Toxicity (oral): Category 4.

Serious Eye Damage/Irritation: Category 1.

Skin Corrosion/Irritation: Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark |

Pictograms**Hazard Statements**

Harmful if swallowed.
 Causes serious eye damage.
 Causes skin irritation.

Precautionary Statements**Prevention:**

Wear protective gloves and eye/face protection.
 Do not eat, drink or smoke when using this product.
 Wash thoroughly after handling.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF ON SKIN: Wash with plenty of soap and water.
 Immediately call a POISON CENTER or doctor/physician.
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Rinse mouth.
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|--|------------|------------------------|
| Alcohols, C11-14-Iso-, C13-Rich, Ethoxylated | 78330-21-9 | 55 - 65 Trade Secret * |
| Ethylhexyloxyethanol | 1559-35-9 | 20 - 25 Trade Secret * |
| Water | 7732-18-5 | 9 - 10 Trade Secret * |
| Diethylene Glycol Mono (2-Ethylhexyl) Ether | 1559-36-0 | 3 - 5 Trade Secret * |
| BHT | 128-37-0 | < 0.5 Trade Secret * |
| Triethylene glycol mono-2-ethylhexyl ether | 1559-37-1 | < 0.5 Trade Secret * |
| C.I. Acid Yellow | 8004-92-0 | < 0.05 Trade Secret * |

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures**5.1. Suitable extinguishing media**

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products**Substance**

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

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.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. 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 physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable

local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|------------|------------|--------|---|--------------------------------|
| BHT | 128-37-0 | ACGIH | TWA(inhalable fraction and vapor):2 mg/m3 | A4: Not class. as human carcin |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

NOTE: When used with a chemical dispensing system as directed, special ventilation is not required.

If product is not used with a chemical dispensing system or if there is an accidental release:

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. The following protection(s) are recommended if the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection.

If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur. If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

Respiratory protection

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required.

If product is not used with a chemical dispensing system or if there is an accidental release:

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance****Physical state**

Liquid

Color

Yellow

Specific Physical Form:

Liquid

Odor

Mild Ether

Odor threshold*No Data Available***pH**

8.2 - 9.2

Melting point*No Data Available***Boiling Point**

> 212 °F

Flash Point

> 212 °F [Test Method: Closed Cup]

Evaporation rate*No Data Available***Flammability (solid, gas)**

Not Applicable

Flammable Limits(LEL)*No Data Available***Flammable Limits(UEL)***No Data Available***Vapor Pressure**

27 psia

Vapor Density*No Data Available***Density***No Data Available***Specific Gravity**

0.97 - 1 [Ref Std: WATER=1]

Solubility in Water

Complete

Solubility- non-water*No Data Available***Partition coefficient: n-octanol/ water***No Data Available***Autoignition temperature***No Data Available***Decomposition temperature***No Data Available***Viscosity**

23 Saybolt Universal Second - 25.4 Saybolt Universal Second

Molecular weight*No Data Available***Volatile Organic Compounds**

< 0.1

Percent volatile*No Data Available***VOC Less H2O & Exempt Solvents**

< 1

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents

Alkali and alkaline earth metals

Reducing agents

Strong acids

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

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

Skin Contact:

May be harmful in contact with skin.

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

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

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|--|-----------|------------------------|---|
| Overall product | Dermal | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >300 - =2,000 mg/kg |
| Alcohols, C11-14-Iso-, C13-Rich, Ethoxylated | Dermal | Rat | LD50 > 2,000 mg/kg |
| Alcohols, C11-14-Iso-, C13-Rich, Ethoxylated | Ingestion | Rat | LD50 500-2000 mg/kg |
| Ethylhexyloxyethanol | Dermal | Rabbit | LD50 2,120 mg/kg |
| Ethylhexyloxyethanol | Ingestion | Rat | LD50 4,674 mg/kg |
| Diethylene Glycol Mono (2-Ethylhexyl) Ether | Dermal | Rabbit | LD50 2,310 mg/kg |
| Diethylene Glycol Mono (2-Ethylhexyl) Ether | Ingestion | Rat | LD50 6,900 mg/kg |
| Triethylene glycol mono-2-ethylhexyl ether | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Triethylene glycol mono-2-ethylhexyl ether | Ingestion | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| BHT | Dermal | Rat | LD50 > 2,000 mg/kg |
| BHT | Ingestion | Rat | LD50 > 2,930 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|--------------------|
| Alcohols, C11-14-Iso-, C13-Rich, Ethoxylated | Rabbit | Mild irritant |
| Ethylhexyloxyethanol | Rabbit | Irritant |
| Diethylene Glycol Mono (2-Ethylhexyl) Ether | Rabbit | Irritant |
| Triethylene glycol mono-2-ethylhexyl ether | Professional judgement | Irritant |
| BHT | Human and animal | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|-----------------|
| Alcohols, C11-14-Iso-, C13-Rich, Ethoxylated | Rabbit | Corrosive |
| Ethylhexyloxyethanol | Rabbit | Severe irritant |
| Diethylene Glycol Mono (2-Ethylhexyl) Ether | Rabbit | Severe irritant |
| Triethylene glycol mono-2-ethylhexyl ether | Professional judgement | Severe irritant |
| BHT | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|--|------------|----------------|
| Alcohols, C11-14-Iso-, C13-Rich, Ethoxylated | Human | Not classified |
| Ethylhexyloxyethanol | Guinea pig | Not classified |

| | | |
|-----|-------|----------------|
| BHT | Human | Not classified |
|-----|-------|----------------|

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

| Name | Route | Value |
|----------------------|----------|---------------|
| Ethylhexyloxyethanol | In Vitro | Not mutagenic |
| BHT | In Vitro | Not mutagenic |
| BHT | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|------|-----------|-------------------------|--|
| BHT | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|----------------------|-----------|--|---------|---------------------|----------------------------|
| Ethylhexyloxyethanol | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | prematuring into lactation |
| Ethylhexyloxyethanol | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 5 weeks |
| Ethylhexyloxyethanol | Ingestion | Not classified for development | Rat | NOAEL 500 mg/kg/day | prematuring into lactation |
| BHT | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| BHT | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| BHT | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--|------------|------------------------|--|------------------------|---------------------|-------------------|
| Alcohols, C11-14-Iso-, C13-Rich, Ethoxylated | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Ethylhexyloxyethanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Diethylene Glycol Mono (2-Ethylhexyl) Ether | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Triethylene glycol mono-2-ethylhexyl ether | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|----------------------|-----------|---|---|---------|---------------------|-------------------|
| Ethylhexyloxyethanol | Ingestion | liver hematopoietic system nervous system | Not classified | Rat | NOAEL 500 mg/kg/day | 5 weeks |
| BHT | Ingestion | liver | Some positive data exist, but the data are not sufficient for | Rat | NOAEL 250 mg/kg/day | 28 days |

| | | | classification | | | |
|-----|-----------|-----------------------|----------------|-------|-----------------------|--------------|
| BHT | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| BHT | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| BHT | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| BHT | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information**Ecotoxicological information**

A 3M Product Environmental Data Sheet (PED) is available.

Chemical fate information

A 3M Product Environmental Data Sheet (PED) is available.

SECTION 13: Disposal considerations**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information**15.1. US Federal Regulations****EPCRA 311/312 Hazard Classifications:****Physical Hazards**

Not applicable

Health Hazards

Acute toxicity

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| Ingredient | C.A.S. No | % by Wt |
|--|------------------|----------------------|
| Ethylhexyloxyethanol (CAS NO SEQ548L1) | 1559-35-9 | Trade Secret 20 - 25 |
| Ethylhexyloxyethanol (GLYCOL ETHERS) | 1559-35-9 | Trade Secret 20 - 25 |

15.2. State Regulations**15.3. Chemical Inventories**

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

This product complies with the New Zealand Hazardous Substances and New Organisms Act (1996).

15.4. International Regulations

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information**NFPA Hazard Classification**

Health: 3 **Flammability:** 1 **Instability:** 1 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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