



## Safety Data Sheet

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|                        |           |                         |          |
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Floor Stripper LO Concentrate (Product No. 22, 3M™ Chemical Management Systems)

#### Product Identification Numbers

| ID Number      | UPC              | ID Number      | UPC               |
|----------------|------------------|----------------|-------------------|
| 61-0000-6346-3 |                  | 61-0000-6382-8 |                   |
| 70-0708-4021-3 | 00-48011-23555-9 | 70-0710-0980-0 | 00-48011-23889-5  |
| 70-0716-5858-0 | 00-48011-23889-5 | 70-0716-5882-0 | 000-51125-85833-5 |
| 70-0716-8290-3 | 00-48011-23555-9 |                |                   |

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Hard Floor Maintenance. A low odor stripper for removing sealers and floor finishes.

#### 1.3. Supplier's details

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Commercial Solutions Division           |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 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.  
Acute Toxicity (inhalation): Category 4.  
Serious Eye Damage/Irritation: Category 1.  
Skin Corrosion/Irritation: Category 1C.  
Specific Target Organ Toxicity (central nervous system): Category 3.  
Specific Target Organ Toxicity (respiratory irritation): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Corrosion | Exclamation mark |

**Pictograms****Hazard Statements**

Harmful if swallowed.  
 Causes severe skin burns and eye damage.  
 Harmful if inhaled.  
 May cause respiratory irritation.  
 May cause drowsiness or dizziness.

**Precautionary Statements****Prevention:**

Do not breathe fume/vapors.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves, protective clothing, and eye/face protection.  
 Do not eat, drink or smoke when using this product.  
 Wash thoroughly after handling.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 Immediately call a POISON CENTER or doctor/physician.  
 Wash contaminated clothing before reuse.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

May cause chemical gastrointestinal burns.  
 6% of the mixture consists of ingredients of unknown acute oral toxicity.  
 59% of the mixture consists of ingredients of unknown acute inhalation toxicity.

**SECTION 3: Composition/information on ingredients**

| <b>Ingredient</b>                                      | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|--------------------------------------------------------|-------------------|------------------------|
| BENZYL ALCOHOL                                         | 100-51-6          | 30 - 60 Trade Secret * |
| ETHANOLAMINE                                           | 141-43-5          | 30 - 60 Trade Secret * |
| POLYETHYLENE GLYCOL TRIMETHYLNONYL ETHER               | 60828-78-6        | 1 - 5 Trade Secret *   |
| WATER                                                  | 7732-18-5         | 1 - 5 Trade Secret *   |
| DECYL(SULFOPHENOXY)BENZENESULFONIC ACID, DISODIUM SALT | 36445-71-3        | 1 - 5 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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

#### 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. Do not induce vomiting. Get immediate medical attention.

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

See Section 11.1. Information on toxicological effects.

### 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 carbon dioxide or dry chemical extinguisher to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

| <u>Substance</u>   | <u>Condition</u>  |
|--------------------|-------------------|
| Carbon monoxide    | During Combustion |
| Carbon dioxide     | During Combustion |
| Oxides of Nitrogen | During Combustion |
| Oxides of Sulfur   | During Combustion |

### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

## 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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 detergent and water. Seal the container. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial or professional use only. 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. Do not breathe fume/vapors. 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. Wash contaminated clothing before reuse. 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. Keep container tightly closed. Store away from acids. Store away from oxidizing agents. Store away from areas where product may come into contact with food or pharmaceuticals.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>                   | <b>Additional Comments</b> |
|-------------------|-------------------|---------------|-------------------------------------|----------------------------|
| BENZYL ALCOHOL    | 100-51-6          | AIHA          | TWA:44.2 mg/m <sup>3</sup> (10 ppm) |                            |
| ETHANOLAMINE      | 141-43-5          | ACGIH         | TWA:3 ppm;STEL:6 ppm                |                            |
| ETHANOLAMINE      | 141-43-5          | OSHA          | TWA:6 mg/m <sup>3</sup> (3 ppm)     |                            |

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. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control fume/vapors. 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. 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. Gloves made from the following material(s) are recommended:

Butyl Rubber  
Neoprene  
Nitrile Rubber  
Polymer laminate

Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended:

Apron - Neoprene  
Boots - Rubber

### 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

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

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| <b>General Physical Form:</b>             | Liquid                                                            |
| <b>Specific Physical Form:</b>            | Liquid                                                            |
| <b>Odor, Color, Grade:</b>                | Clear, bright green liquid with chemical odor.                    |
| <b>Odor threshold</b>                     | <i>No Data Available</i>                                          |
| <b>pH</b>                                 | 10.8 - 11.6 [ <i>Details:</i> CONDITIONS: (5% in water)]          |
| <b>Boiling Point</b>                      | > 300 °F                                                          |
| <b>Flash Point</b>                        | > 200 °F [ <i>Test Method:</i> Closed Cup]                        |
| <b>Flammability (solid, gas)</b>          | Not Applicable                                                    |
| <b>Vapor Pressure</b>                     | ≤ 27 [ <i>@</i> 131 °F]                                           |
| <b>Specific Gravity</b>                   | 1.03 - 1.05 [ <i>Ref Std:</i> WATER=1]                            |
| <b>Solubility in Water</b>                | Moderate                                                          |
| <b>Solubility- non-water</b>              | <i>No Data Available</i>                                          |
| <b>Decomposition temperature</b>          | <i>No Data Available</i>                                          |
| <b>Viscosity</b>                          | < 20 sec                                                          |
| <b>Volatile Organic Compounds</b>         | 75 - 95 % [ <i>Test Method:</i> calculated per CARB title 2]      |
| <b>VOC Less H2O &amp; Exempt Solvents</b> | 750 - 1050 g/l [ <i>Test Method:</i> calculated per CARB title 2] |

## 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

Not determined

#### 10.5. Incompatible materials

Strong acids

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

##### Substance

##### Condition

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:**

Harmful if inhaled.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause target organ effects after inhalation.

##### **Skin Contact:**

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

##### **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 Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen. May cause target organ effects after ingestion.

##### **Target Organ Effects:**

##### **Single exposure may cause:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### **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 | Inhalation-Vapor(4 hr)         |                         | No data available; calculated ATE 10 - 20 mg/l      |
| Overall product | Ingestion                      |                         | No data available; calculated ATE 300 - 2,000 mg/kg |
| BENZYL ALCOHOL  | Inhalation-Dust/Mist (4 hours) | Rat                     | LC50 8.8 mg/l                                       |
| BENZYL ALCOHOL  | Ingestion                      | Rat                     | LD50 1,230 mg/kg                                    |
| ETHANOLAMINE    | Inhalation-Vapor               | official classification | LC50 estimated to be 10 - 20 mg/l                   |
| ETHANOLAMINE    | Dermal                         | Rabbit                  | LD50 1,000 mg/kg                                    |
| ETHANOLAMINE    | Ingestion                      | Rat                     | LD50 1,720 mg/kg                                    |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name           | Species                 | Value         |
|----------------|-------------------------|---------------|
| BENZYL ALCOHOL | Multiple animal species | Mild irritant |
| ETHANOLAMINE   | Rabbit                  | Corrosive     |

### Serious Eye Damage/Irritation

| Name           | Species | Value           |
|----------------|---------|-----------------|
| BENZYL ALCOHOL | Rabbit  | Severe irritant |
| ETHANOLAMINE   | Rabbit  | Corrosive       |

### Skin Sensitization

| Name           | Species          | Value                                                                        |
|----------------|------------------|------------------------------------------------------------------------------|
| BENZYL ALCOHOL | Human and animal | Some positive data exist, but the data are not sufficient for classification |
| ETHANOLAMINE   | Guinea pig       | Some positive data exist, but the data are not sufficient for classification |

### Respiratory Sensitization

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

### Germ Cell Mutagenicity

| Name           | Route    | Value                                                                        |
|----------------|----------|------------------------------------------------------------------------------|
| BENZYL ALCOHOL | In vivo  | Not mutagenic                                                                |
| BENZYL ALCOHOL | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ETHANOLAMINE   | In Vitro | Not mutagenic                                                                |
| ETHANOLAMINE   | In vivo  | Not mutagenic                                                                |

### Carcinogenicity

| Name           | Route     | Species                 | Value            |
|----------------|-----------|-------------------------|------------------|
| BENZYL ALCOHOL | Ingestion | Multiple animal species | Not carcinogenic |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name           | Route     | Value                    | Species | Test Result         | Exposure Duration    |
|----------------|-----------|--------------------------|---------|---------------------|----------------------|
| BENZYL ALCOHOL | Ingestion | Not toxic to development | Mouse   | NOAEL 550 mg/kg/day | during organogenesis |
| ETHANOLAMINE   | Dermal    | Not toxic to development | Rat     | NOAEL 225 mg/kg/day | during organogenesis |
| ETHANOLAMINE   | Ingestion | Not toxic to development | Rat     | NOAEL 616 mg/kg/day | during organogenesis |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name           | Route      | Target Organ(s)                   | Value                                                                        | Species          | Test Result         | Exposure Duration |
|----------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------|---------------------|-------------------|
| BENZYL ALCOHOL | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            |                  | NOAEL Not available |                   |
| BENZYL ALCOHOL | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                  | NOAEL Not available |                   |
| BENZYL ALCOHOL | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            |                  | NOAEL Not available |                   |
| ETHANOLAMINE   | Inhalation | respiratory irritation            | May cause respiratory irritation                                             | Human and animal | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name           | Route      | Target Organ(s)                                                           | Value                                                                        | Species                 | Test Result         | Exposure Duration |
|----------------|------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|-------------------|
| BENZYL ALCOHOL | Ingestion  | endocrine system   muscles   kidney and/or bladder                        | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 400 mg/kg/day | 13 weeks          |
| BENZYL ALCOHOL | Ingestion  | nervous system   respiratory system                                       | Some positive data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 645 mg/kg/day | 8 days            |
| ETHANOLAMINE   | Inhalation | liver   kidney and/or bladder   respiratory system                        | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.656 mg/l    | 5 weeks           |
| ETHANOLAMINE   | Ingestion  | hematopoietic system   liver   kidney and/or bladder   respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL Not available |                   |

**Aspiration Hazard**

| Name | Value |
|------|-------|
|------|-------|

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**

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

**Chemical fate information**

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

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

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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

**311/312 Hazard Categories:**

Fire Hazard - No   Pressure Hazard - No   Reactivity Hazard - No   Immediate Hazard - Yes   Delayed Hazard - No

### 15.2. State Regulations

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

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 Japan Chemical Substance 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.

### 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:** 0 **Special Hazards:** None

**Acid/Base:** Alkaline **Corrosive:** Yes

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.

**HMIS Hazard Classification****Health: 3 Flammability: 1 Physical Hazard: 0 Personal Protection: X** - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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