Safety Data Sheet

1.1. Product identifier
3M™ 3-in-1 Floor Cleaner Concentrate (Product No. 24, 3M™ Chemical Management Systems)

Product Identification Numbers
61-0000-6349-7, 61-0000-6385-1, 61-0000-6413-1, 70-0716-5883-8, 70-0716-8317-4, 70-0716-8318-2
7100053804, 7010385265, 7010364131, 7010342248, 7010328519

1.2. Recommended use and restrictions on use

Recommended use
Versatile, low-foaming cleaner can be used in automatic scrubbers or in mop-on applications. Fragrance Added, This product meets Green Seal™ Standard GS-37 based on effective performance, concentration of product, minimized/recycled packaging, and protective limits on VOCs and human & environmental toxicity. Acute toxicity and skin/eye damage met requirements at the as-used dilution, as specified for closed dilution systems. GreenSeal.org, 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.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Danger

Symbols
Corrosion | Exclamation mark |
Pictograms

Hazard Statements
Harmful if swallowed.
Causes serious eye damage.
Causes skin irritation.
May cause an allergic skin reaction.

Precautionary Statements
General:
Keep out of reach of children.

Prevention:
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves and eye/face protection.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

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.
If skin irritation or rash 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.

65% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED</td>
<td>78330-21-9</td>
<td>40 - 70</td>
</tr>
<tr>
<td>Ethylhexyloxyethanol</td>
<td>1559-35-9</td>
<td>10 - 30</td>
</tr>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>7 - 13</td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL MONO(2-ETHYLHEXYL)ETHER</td>
<td>1559-36-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Trade Secret*</td>
<td>&lt;= 1</td>
</tr>
<tr>
<td>Geraniol</td>
<td>106-24-1</td>
<td>0.1 - 0.2</td>
</tr>
<tr>
<td>Acid Blue 9</td>
<td>3844-45-9</td>
<td>0.02 - 0.05</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>123-91-1</td>
<td>&lt;= 0.002</td>
</tr>
</tbody>
</table>
*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
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**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

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
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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chronic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store away from strong bases. 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
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.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-DIOXANE</td>
<td>123-91-1</td>
<td>ACGIH</td>
<td>TWA:20 ppm</td>
<td>A3: Confirmed animal carcin., Danger of cutaneous absorption</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>123-91-1</td>
<td>OSHA</td>
<td>TWA:360 mg/m3(100 ppm)</td>
<td>SKIN</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Trade Secret</td>
<td>ACGIH</td>
<td>TWA(as Pb):0.05 mg/m3</td>
<td>A3: Confirmed animal carcin.</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Trade Secret</td>
<td>OSHA</td>
<td>TWA:0.05 mg/m3</td>
<td>29 CFR 1910.1025</td>
</tr>
</tbody>
</table>

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 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. If the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection. 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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary.

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

- 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 - 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Dark Blue</td>
</tr>
<tr>
<td>Specific Physical Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Citrus</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No Data Available</td>
</tr>
<tr>
<td>pH</td>
<td>7 - 8</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt; 200 ºF</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 200 ºF</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
**FLAMMABILITY (solid, gas)**
Not Applicable

**Flammable Limits (LEL)**
Not Applicable

**Flammable Limits (UEL)**
Not Applicable

**Vapor Pressure**
<=27 psia [@ 131 °F]

**Vapor Density**
Not Applicable

**Specific Gravity**
0.97  [Ref Std: WATER=1]

**Solubility in Water**
Complete

**Solubility- non-water**
No Data Available

**Partition coefficient: n-octanol/ water**
Not Applicable

**Autoignition temperature**
No Data Available

**Decomposition temperature**
No Data Available

**Viscosity**
< 27 Saybolt Universal Second

**Volatile Organic Compounds**
< 70 %  [Test Method: calculated per CARB title 2]

**Percent volatile**
7 - 15 %  No Data Available

**VOC Less H2O & Exempt Solvents**
< 750 g/l  [Test Method: calculated per CARB title 2]

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**SECTION 10: Stability and reactivity**

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

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 bases
Strong oxidizing agents

10.6. Hazardous decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

Refer to section 5.2 for hazardous decomposition products during combustion.

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

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.

Carcinogenicity:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Class Description</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-DIOXANE</td>
<td>123-91-1</td>
<td>Grp. 2B: Possible human carc.</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>123-91-1</td>
<td>Anticipated human carcinogen</td>
<td>National Toxicology Program Carcinogens</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Trade Secret</td>
<td>Grp. 2B: Possible human carc.</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Trade Secret</td>
<td>Anticipated human carcinogen</td>
<td>National Toxicology Program Carcinogens</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Dermal</td>
<td>No data available; calculated ATE 2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td>No data available; calculated ATE 300 - 2,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 1,350 mg/kg</td>
</tr>
<tr>
<td>Ethylhexyloxyethanol</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 2,120 mg/kg</td>
</tr>
<tr>
<td>Ethylhexyloxyethanol</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 3,080 mg/kg</td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL MONO(2-ETHYLHEXYL)ether</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 2,310 mg/kg</td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL MONO(2-ETHYLHEXYL)ether</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 5,110 mg/kg</td>
</tr>
<tr>
<td>Geraniol</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Acid Blue 9</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Acid Blue 9</td>
<td>Dermal</td>
<td>similar</td>
<td>Not available</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 7,600 mg/kg</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>Inhalation- Vapor (4 hours)</td>
<td>Rat</td>
<td>LC50 51.3 mg/l</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 5,170 mg/kg</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Dermal</td>
<td>LD50 estimated to be 2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

ATE = acute toxicity estimate

Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>Geraniol</td>
<td>Rabbit</td>
<td>Irritant</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>Rabbit</td>
<td>Minimal irritation</td>
</tr>
<tr>
<td>Fragrance</td>
<td>similar</td>
<td>No significant irritation</td>
</tr>
</tbody>
</table>
### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Geraniol</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>Rabbit</td>
<td>Severe irritant</td>
</tr>
<tr>
<td>Fragrance</td>
<td>similar compounds</td>
<td>Mild irritant</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED</td>
<td>Human</td>
<td>Not classified</td>
</tr>
<tr>
<td>Geraniol</td>
<td>Human and animal</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>Human</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-DIOXANE</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>1,4-DIOXANE</td>
<td>In vivo</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>Fragrance</td>
<td>In vivo</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-DIOXANE</td>
<td>Ingestion</td>
<td>Multiple animal species</td>
<td>Carcinogenic</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Not Specified</td>
<td>Official classification</td>
<td>Carcinogenic</td>
</tr>
</tbody>
</table>

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-DIOXANE</td>
<td>Ingestion</td>
<td>Not classified for development</td>
<td>Rat</td>
<td>NOAEL 1,033 mg/kg/day</td>
<td>during organogenesis</td>
</tr>
<tr>
<td>Fragrance</td>
<td>Not Specified</td>
<td>Toxic to female reproduction</td>
<td>Human</td>
<td>LOAEL 10 ug/dl blood</td>
<td></td>
</tr>
<tr>
<td>Fragrance</td>
<td>Not Specified</td>
<td>Toxic to male reproduction</td>
<td>Human</td>
<td>LOAEL 37 ug/dl blood</td>
<td></td>
</tr>
<tr>
<td>Fragrance</td>
<td>Not Specified</td>
<td>Toxic to development</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
</tbody>
</table>

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
</table>
Geraniol  |  Inhalation  |  respiratory irritation  |  Some positive data exist, but the data are not sufficient for classification  |  similar health hazards  |  NOAEL not available  

1,4-DIOXANE |  Dermal  |  central nervous system depression  |  May cause drowsiness or dizziness  |  Multiple animal species  |  NOAEL Not available  |  not available  

1,4-DIOXANE |  Inhalation  |  central nervous system depression  |  May cause drowsiness or dizziness  |  Human  |  NOAEL Not available  |  2 hours  

1,4-DIOXANE |  Inhalation  |  respiratory irritation  |  May cause respiratory irritation  |  Human and animal  |  NOAEL Not available  

1,4-DIOXANE |  Inhalation  |  liver | kidney and/or bladder  |  Not classified  |  Human and animal  |  NOAEL Not available  

1,4-DIOXANE |  Ingestion  |  liver  |  Not classified  |  Rat  |  NOAEL 1,000 mg/kg  |  not applicable  

Fragrance  |  Ingestion  |  nervous system  |  May cause damage to organs  |  Human  |  LOAEL 90 ug/dl blood  |  poisoning and/or abuse  

Fragrance  |  Ingestion  |  heart  |  Not classified  |  Human  |  NOAEL Not available  |  poisoning and/or abuse  

### Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
</table>
| 1,4-DIOXANE | Dermal  | liver | kidney and/or bladder  | Not classified  | Multiple animal species  | NOAEL Not available  | 14 weeks  

1,4-DIOXANE | Inhalation  | liver | kidney and/or bladder  | May cause damage to organs though prolonged or repeated exposure  | Multiple animal species  | LOAEL 3.6 mg/l  | 3 weeks  

1,4-DIOXANE | Inhalation  | nervous system  | Not classified  | Rat  | NOAEL 10.8 mg/l  | 2 weeks  

1,4-DIOXANE | Inhalation  | heart | endocrine system | hematopoietic system | immune system  | Not classified  | Rat  | NOAEL 0.4 mg/l  | 2 years  

1,4-DIOXANE | Ingestion  | liver | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification  | Rat  | NOAEL 9.6 mg/kg/day  | 2 years  

1,4-DIOXANE | Ingestion  | hematopoietic system  | Not classified  | Multiple animal species  | NOAEL Not available  | 13 weeks  

1,4-DIOXANE | Ingestion  | heart  | Not classified  | Rat  | NOAEL 1,599 mg/kg/day  | 2 years  

1,4-DIOXANE | Ingestion  | endocrine system | immune system  | Not classified  | Multiple animal species  | NOAEL 2,000 mg/kg/day  | 13 weeks  

Fragrance  | Inhalation  | kidney and/or bladder  | May cause damage to organs though prolonged or repeated exposure  | Human  | LOAEL 60 ug/dl blood  | occupational exposure  

Fragrance  | Inhalation  | hematopoietic system  | May cause damage to organs though prolonged or repeated exposure  | Human  | LOAEL 50 ug/dl blood  | occupational exposure  

Fragrance  | Inhalation  | nervous system  | May cause damage to organs though prolonged or repeated exposure  | Human  | LOAEL 40 ug/dl blood  | occupational exposure  

Fragrance  | Inhalation  | gastrointestinal tract  | Some positive data exist, but the data are not sufficient for classification  | Human  | NOAEL Not available  | occupational exposure  

Fragrance  | Inhalation  | heart | endocrine system | immune system | vascular system  | Not classified  | Human  | NOAEL Not available  | occupational exposure  

Fragrance  | Ingestion  | bone, teeth, nails, and/or hair  | May cause damage to organs though prolonged or repeated  | Rat  | LOAEL 20 ug/dl blood  | 3 months  

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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
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.

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
Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:
Physical Hazards
Not applicable

Health Hazards
Acute toxicity
Respiratory or Skin Sensitization
Serious eye damage or eye irritation
Skin Corrosion or Irritation

This material contains a chemical which requires export notification under TSCA Section 12[b]:

15.2. State Regulations
Contact 3M for more information.

California Proposition 65

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Listing</th>
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</thead>
<tbody>
<tr>
<td>LEAD</td>
<td>Trade Secret</td>
<td>Female reproductive toxin</td>
</tr>
<tr>
<td>LEAD</td>
<td>Trade Secret</td>
<td>Male reproductive toxin</td>
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<tr>
<td>LEAD</td>
<td>Trade Secret</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>LEAD</td>
<td>Trade Secret</td>
<td>Developmental Toxin</td>
</tr>
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</table>

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).

Contact 3M for more information.

15.4. International Regulations
Contact 3M for more information.

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

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® IV) 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® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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<th>Issue Date:</th>
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**3M USA SDSs are available at www.3M.com**