

# **Safety Data Sheet**

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# **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>TM</sup> Heavy Duty Degreaser Concentrate

### **Product Identification Numbers**

ID Number UPC ID Number UPC

70-0713-1377-2 500-48011-34782-5 70-0716-8328-1 500-48011-34782-5

7100077193, 7000027573

### 1.2. Recommended use and restrictions on use

#### Recommended use

Hard Surface Cleaner

# 1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Commercial Branding and Transportation 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

Corrosive to metal: Category 1.

Serious Eye Damage/Irritation: Category 1. Skin Corrosion/Irritation: Category 1B.

Specific Target Organ Toxicity (repeated exposure): Category 1.

### 2.2. Label elements

### Signal word

Danger

## **Symbols**

Corrosion | Health Hazard |

## **Pictograms**



### **Hazard Statements**

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes damage to organs through prolonged or repeated exposure: respiratory system

### **Precautionary Statements**

#### **Prevention:**

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapors/spray.

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.

Absorb spillage to prevent material damage.

## Storage:

Store in a corrosive resistant container with a resistant inner liner.

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.

4% of the mixture consists of ingredients of unknown acute oral toxicity.

5% of the mixture consists of ingredients of unknown acute dermal toxicity.

26% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	60 - 90 Trade Secret *
Butoxyethanol	111-76-2	5 - 10 Trade Secret *
SODIUM DODECYLBENZENE SULFONATE	25155-30-0	1 - 5 Trade Secret *
SODIUM HYDROXIDE	1310-73-2	1 - 5 Trade Secret *

Page 2 of 15

Sodium Orthosilicate	1344-09-8	1 - 5 Trade Secret *
Sodium xylenesulphonate	1300-72-7	1 - 5 Trade Secret *
SODIUM GLYCOLATE	2836-32-0	0.1 - 1 Trade Secret *
SODIUM SULFATE	7757-82-6	0.1 - 1 Trade Secret *
Tetrasodium EDTA	64-02-8	0.1 - 1 Trade Secret *
C9-11 Alcohols Ethoxylated	68439-46-3	0.1 - 0.9 Trade Secret *
BENZALDEHYDE	100-52-7	0.01 - 0.05 Trade Secret
		*
Polymeric Colorant	Trade Secret*	0.001 - 0.015 Trade
		Secret *
Polymeric Colorant	Trade Secret*	0.001 - 0.01 Trade
		Secret *

<sup>\*</sup>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

No critical symptoms or effects. 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

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

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

None inherent in this product.

## 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. 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. For large spills, if necessary, get assistance from professional spill clean up team. For small spills, carefully neutralize spill by adding appropriate dilute acid such as vinegar. Work slowly to avoid boiling or spattering. Continue to add neutralizing agent until reaction stops. Let cool before collecting. Or use a commercially available caustic (alkaline or basic) spill clean-up kit. Follow kit directions exactly. 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 metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. 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

Do not breathe 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. Wash contaminated clothing before reuse. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from acids. Keep/store away from clothing and other combustible materials.

# **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
BENZALDEHYDE	100-52-7	AIHA	TWA:8.7 mg/m3(2	Dermal Sensitizer
			ppm);STEL(15 minutes):17.4	
			mg/m3(4 ppm)	
Butoxyethanol	111-76-2	ACGIH	TWA:20 ppm	A3: Confirmed animal
				carcin.
Butoxyethanol	111-76-2	OSHA	TWA:240 mg/m3(50 ppm)	SKIN
SODIUM HYDROXIDE	1310-73-2	ACGIH	CEIL:2 mg/m3	
SODIUM HYDROXIDE	1310-73-2	OSHA	TWA:2 mg/m3	

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

**Page** 4 **of** 15

### 8.2.1. Engineering controls

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

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

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

Fluoroelastomer

Nitrile Rubber

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. 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 – Butyl rubber

Apron – Nitrile

Apron - polymer laminate

### Respiratory protection

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 stateLiquidColorGreen

Specific Physical Form: Liquid

Odor Characteristic Odor
Odor threshold No Data Available

pH 12.5 - 13.5

Melting point Not Applicable

Boiling Point > 212 °F

Flash Point No flash point

Evaporation rate No Data Available

Flammability (solid, gas) Not Applicable

Flammable Limits(LEL) No Data Available

Flammable Limits(UEL)No Data AvailableVapor PressureNo Data AvailableVapor DensityNo Data AvailableDensityNo Data Available

Specific Gravity 1.04858 [Ref Std:WATER=1]

Solubility in Water Complete

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNot ApplicableDecomposition temperatureNo Data AvailableViscosity< 100 centipoise</th>

**Volatile Organic Compounds** 5 - 15 % weight [Test Method:calculated per CARB title 2]

Percent volatile 60 - 90 % VOC Less H2O & Exempt Solvents 490 - 550 g/l

# **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
Aluminum
Zinc

### 10.6. Hazardous decomposition products

SubstanceConditionCarbon monoxideNot SpecifiedCarbon dioxideNot Specified

# **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.

May cause additional health effects (see below).

### **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:**

May be 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.

### **Additional Health Effects:**

### Prolonged or repeated exposure may cause target organ effects:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

### **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 >5,000 mg/kg
Overall product	Inhalation- Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
Butoxyethanol	Dermal	Guinea pig	LD50 > 2,000 mg/kg
Butoxyethanol	Inhalation- Vapor (4 hours)	Guinea pig	LC50 > 2.6 mg/l
Butoxyethanol	Ingestion	Guinea pig	LD50 1,200 mg/kg
Sodium Orthosilicate	Dermal	Rabbit	LD50 > 4,640 mg/kg
Sodium xylenesulphonate	Dermal	Rabbit	LD50 > 2,000 mg/kg
SODIUM DODECYLBENZENE SULFONATE	Dermal	Rat	LD50 > 2,000 mg/kg
SODIUM DODECYLBENZENE SULFONATE	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.31 mg/l
SODIUM DODECYLBENZENE SULFONATE	Ingestion	Rat	LD50 1,260 mg/kg
Sodium Orthosilicate	Ingestion	Rat	LD50 500 mg/kg
Sodium xylenesulphonate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 6.4 mg/l
Sodium xylenesulphonate	Ingestion	Rat	LD50 7,200 mg/kg
SODIUM GLYCOLATE	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
SODIUM GLYCOLATE	Ingestion	Rat	LD50 7,110 mg/kg
Tetrasodium EDTA	Inhalation- Dust/Mist	Rat	LC50 > 1.5 mg/l

**Page** 7 **of** 15

	(4 hours)		
Tetrasodium EDTA	Ingestion	Rat	LD50 1,658 mg/kg
C9-11 Alcohols Ethoxylated	Dermal	similar	LD50 > 2,000 mg/kg
·		compoun	
		ds	
C9-11 Alcohols Ethoxylated	Inhalation-	similar	LC50 > 1.6  mg/l
	Dust/Mist	compoun	
	(4 hours)	ds	
C9-11 Alcohols Ethoxylated	Ingestion	similar	LD50 3,488 mg/kg
		compoun	
		ds	
SODIUM SULFATE	Inhalation-	Rat	LC50 > 2.4  mg/l
	Dust/Mist		
	(4 hours)		
SODIUM SULFATE	Ingestion	Rat	LD50 > 10,000 mg/kg
SODIUM SULFATE	Dermal	similar	LD50 estimated to be > 5,000 mg/kg
		health	
		hazards	
BENZALDEHYDE	Dermal	Rabbit	LD50 >2000, <5000 mg/kg
BENZALDEHYDE	Inhalation-	Rat	LC50 >1, <5 mg/l
	Dust/Mist		
	(4 hours)		
BENZALDEHYDE	Ingestion	Rat	LD50 1,430 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro	Corrosive
	data	
Butoxyethanol	Rabbit	Irritant
SODIUM DODECYLBENZENE SULFONATE	Rabbit	Irritant
SODIUM HYDROXIDE	Rabbit	Corrosive
Sodium Orthosilicate	Rabbit	Corrosive
Sodium xylenesulphonate	Rabbit	Minimal irritation
SODIUM GLYCOLATE	Not	Irritant
	available	
Tetrasodium EDTA	Rabbit	No significant irritation
C9-11 Alcohols Ethoxylated	similar	Minimal irritation
	compoun	
	ds	
SODIUM SULFATE	Rabbit	No significant irritation
BENZALDEHYDE	Multiple	Irritant
	animal	
	species	

**Serious Eve Damage/Irritation** 

Name	Species	Value
Butoxyethanol	Rabbit	Severe irritant
SODIUM DODECYLBENZENE SULFONATE	Rabbit	Corrosive
SODIUM HYDROXIDE	Rabbit	Corrosive
Sodium Orthosilicate	In vitro	Corrosive
	data	
Sodium xylenesulphonate	Rabbit	Moderate irritant
SODIUM GLYCOLATE	Not	Corrosive
	available	
Tetrasodium EDTA	Rabbit	Corrosive
C9-11 Alcohols Ethoxylated	Professio	Moderate irritant
	nal	
	judgeme	
	nt	
SODIUM SULFATE	Rabbit	No significant irritation
BENZALDEHYDE	Rabbit	Moderate irritant

Page 8 of 15

## **Skin Sensitization**

Name	Species	Value
Butoxyethanol	Guinea	Not classified
	pig	
SODIUM DODECYLBENZENE SULFONATE	Guinea	Not classified
	pig	
SODIUM HYDROXIDE	Human	Not classified
Sodium Orthosilicate	Mouse	Not classified
Sodium xylenesulphonate	Guinea	Not classified
	pig	
SODIUM GLYCOLATE	Guinea	Not classified
	pig	
Tetrasodium EDTA	Human	Not classified
	and	
	animal	
C9-11 Alcohols Ethoxylated	Guinea	Not classified
	pig	
SODIUM SULFATE	Guinea	Not classified
	pig	
BENZALDEHYDE	Human	Some positive data exist, but the data are not
		sufficient for classification

# **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		
Butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification		
SODIUM DODECYLBENZENE SULFONATE	In Vitro	Not mutagenic		
SODIUM DODECYLBENZENE SULFONATE	In vivo	Not mutagenic		
SODIUM HYDROXIDE	In Vitro	Not mutagenic		
Sodium Orthosilicate	In Vitro	Not mutagenic		
Sodium Orthosilicate	In vivo	Not mutagenic		
Sodium xylenesulphonate	In Vitro	Not mutagenic		
Tetrasodium EDTA	In Vitro	Some positive data exist, but the data are not sufficient for classification		
Tetrasodium EDTA	In vivo	Some positive data exist, but the data are not sufficient for classification		
C9-11 Alcohols Ethoxylated	In Vitro	Not mutagenic		
SODIUM SULFATE	In Vitro	Not mutagenic		
BENZALDEHYDE	In vivo	Not mutagenic		
BENZALDEHYDE	In Vitro	Some positive data exist, but the data are not sufficient for classification		

Carcinogenicity

Name	Route	Species	Value
Butoxyethanol	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
SODIUM DODECYLBENZENE SULFONATE	Dermal	Mouse	Not carcinogenic
SODIUM DODECYLBENZENE SULFONATE	Ingestion	Rat	Not carcinogenic
Sodium xylenesulphonate	Dermal	Multiple animal species	Not carcinogenic
Tetrasodium EDTA	Ingestion	Multiple animal species	Not carcinogenic
BENZALDEHYDE	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification

Page 9 of

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Butoxyethanol	Dermal	Not classified for development	Rat	NOAEL 1,760 mg/kg/day	during gestation
Butoxyethanol	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesi s
Butoxyethanol	Inhalation	Not classified for development	Multiple animal species	NOAEL 0.48 mg/l	during organogenesi s
SODIUM DODECYLBENZENE SULFONATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 350 mg/kg/day	3 generation
SODIUM DODECYLBENZENE SULFONATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 350 mg/kg/day	3 generation
SODIUM DODECYLBENZENE SULFONATE	Dermal	Not classified for development	Mouse	NOAEL 1,500 mg/kg/day	during organogenesi s
SODIUM DODECYLBENZENE SULFONATE	Ingestion	Not classified for development	Mouse	LOAEL 300 mg/kg/day	during organogenesi s
Sodium Orthosilicate	Ingestion	Not classified for development	Mouse	NOAEL 200 mg/kg/day	during gestation
Sodium xylenesulphonate	Ingestion	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during gestation
Tetrasodium EDTA	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
Tetrasodium EDTA	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
Tetrasodium EDTA	Ingestion	Not classified for development	Rat	LOAEL 1,000 mg/kg/day	during gestation
C9-11 Alcohols Ethoxylated	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
C9-11 Alcohols Ethoxylated	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
C9-11 Alcohols Ethoxylated	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
SODIUM SULFATE	Dermal	Not classified for female reproduction	Rabbit	NOAEL 5,328 mg/kg/day	65 days
SODIUM SULFATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
SODIUM SULFATE	Dermal	Not classified for male reproduction	Rabbit	NOAEL 5,328 mg/kg/day	65 days
SODIUM SULFATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	4 weeks
SODIUM SULFATE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
BENZALDEHYDE	Ingestion	Not classified for female reproduction	Rat	NOAEL 5 mg/kg/day	1 generation

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 902 mg/kg	6 hours
Butoxyethanol	Dermal	liver	Not classified	Rabbit	LOAEL 72 mg/kg	not available
Butoxyethanol	Dermal	kidney and/or bladder	Not classified	Rabbit	LOAEL 451 mg/kg	6 hours
Butoxyethanol	Dermal	blood	Not classified	Multiple animal	NOAEL Not available	

**Page** 10 **of** 15

				species		
Butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Butoxyethanol	Inhalation	blood	Not classified	Multiple animal species	NOAEL Not available	
Butoxyethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Butoxyethanol	Ingestion	blood	Not classified	Multiple animal species	NOAEL Not available	
Butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Human	NOAEL Not available	poisoning and/or abuse
SODIUM HYDROXIDE	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
Sodium Orthosilicate	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
Sodium xylenesulphonate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
SODIUM GLYCOLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Tetrasodium EDTA	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
C9-11 Alcohols Ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
SODIUM SULFATE	Inhalation	respiratory irritation	Not classified	Human and animal	Irritation Not available	
BENZALDEHYDE	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
Butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	not available
Butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 150 mg/kg/day	90 days
Butoxyethanol	Inhalation	liver	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
Butoxyethanol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.15 mg/l	14 weeks
Butoxyethanol	Inhalation	blood	Not classified	Rat	LOAEL 0.15 mg/l	6 months
Butoxyethanol	Inhalation	endocrine system	Not classified	Dog	LOAEL 1.9 mg/l	8 days
Butoxyethanol	Ingestion	blood	Not classified	Rat	LOAEL 69 mg/kg/day	13 weeks
Butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	not available
SODIUM DODECYLBENZENE SULFONATE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 40 mg/kg/day	6 months
SODIUM	Ingestion	hematopoietic	Not classified	Dog	NOAEL 150	6 months

Page 11 of 15

DODECYLBENZENE SULFONATE		system   liver			mg/kg/day	
Sodium Orthosilicate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 2,400 mg/kg/day	4 weeks
Sodium Orthosilicate	Ingestion	endocrine system   blood	Not classified	Rat	NOAEL 804 mg/kg/day	3 months
Sodium Orthosilicate	Ingestion	heart   liver	Not classified	Rat	NOAEL 1,259 mg/kg/day	8 weeks
Sodium xylenesulphonate	Dermal	liver   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium xylenesulphonate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 763 mg/kg/day	90 days
Tetrasodium EDTA	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.003 mg/l	13 weeks
Tetrasodium EDTA	Inhalation	liver   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   eyes   kidney and/or bladder   vascular system	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
Tetrasodium EDTA	Ingestion	hematopoietic system   liver	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Tetrasodium EDTA	Ingestion	heart   gastrointestinal tract   muscles   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks
C9-11 Alcohols Ethoxylated	Dermal	kidney and/or bladder   heart   hematopoietic system   liver   nervous system   respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
SODIUM SULFATE	Dermal	heart   skin   endocrine system   gastrointestinal tract   hematopoietic system   liver   immune system   nervous system   kidney and/or bladder   respiratory system	Not classified	Rabbit	NOAEL 5,328 mg/kg/day	65 days
SODIUM SULFATE	Ingestion	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 2,000 mg/kg/day	4 weeks
BENZALDEHYDE	Inhalation	hematopoietic system   liver   nervous system	Not classified	Rat	NOAEL 4.34 mg/l	14 days

**Page** 12 **of** 15

		respiratory system   heart   endocrine system   gastrointestinal tract   kidney and/or bladder				
BENZALDEHYDE	Ingestion	liver   nervous system   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg/day	13 weeks
BENZALDEHYDE	Ingestion	gastrointestinal tract   heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   eyes   respiratory system	Not classified	Rat	NOAEL 800 mg/kg/day	13 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**

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. 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): D002 (Corrosive)

# **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

Corrosive to metal

### **Health Hazards**

Hazard Not Otherwise Classified (HNOC)

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

### 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

Butoxyethanol (GLYCOL ETHERS) 111-76-2 Trade Secret 5 - 10

# 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. All required components of this product are listed on the active portion of the TSCA Inventory.

## 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: 0 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.

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### **HMIS Hazard Classification**

Health: \*3 Flammability: 0 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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