



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Concrete Floor Cleaner & Densifier

Product Identification Numbers

ID Number	UPC	ID Number	UPC
70-0012-0653-4		70-0012-0654-2	

7100269866, 7100269865

1.2. Recommended use and restrictions on use

Recommended use

Industrial use

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

Serious Eye Damage/Irritation: Category 1.

Skin Corrosion/Irritation: Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion |

Pictograms

**Hazard Statements**

Causes serious eye damage.

Causes skin irritation.

Precautionary Statements**Prevention:**

Wear protective gloves and eye/face protection.

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.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	65 - 99
Diethylene Glycol Monoethyl Ether	111-90-0	<= 8
ETHOXYLATED C9-11 ALCOHOLS	68439-46-3	0.5 - 5 Trade Secret *
Aliphatic Amide	Trade Secret*	1 - 5 Trade Secret *
Branched Alkyl Alcohol Alkoxylate	Trade Secret*	0.5 - 5 Trade Secret *
Silicic Acid Metal Salt	Trade Secret*	1 - 5 Trade Secret *
Na Xylene Sulfonate	1300-72-7	< 2.2
Silanetriol Metal Salt	Trade Secret*	0.1 - 1 Trade Secret *
Siloxane Based Defoamer	Trade Secret*	< 0.05

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

No fragrance added.

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

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products**Substance**

Formaldehyde

Carbon monoxide

Carbon dioxide

Condition

During Combustion

During Combustion

During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective 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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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. 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 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
Diethylene Glycol Monoethyl Ether	111-90-0	AIHA	TWA:140 mg/m3(25 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

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. 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

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

Half facepiece or full facepiece supplied-air respirator

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
Color

Liquid
Colorless

Odor

Mild Detergent

Odor threshold

No Data Available

pH

< 11.5

Melting point

Not Applicable

Boiling Point

>=200 °F

Flash Point

>=200 °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

No Data Available

Vapor Density

No Data Available

Density

>=1.025 g/ml

Specific Gravity

>=0.98 [*Ref Std*:WATER=1]

Solubility in Water

Soluble

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

No Data Available

Volatile Organic Compounds

<=0.05 % [*Test Method*:calculated per CARB]

Percent volatile

No Data Available

VOC Less H2O & Exempt Solvents

No Data Available

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 acids

Strong bases

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance

None known.

Condition

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:

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:

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 >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Diethylene Glycol Monoethyl Ether	Dermal	Rabbit	LD50 9,143 mg/kg
Diethylene Glycol Monoethyl Ether	Ingestion	Rat	LD50 5,400 mg/kg
Branched Alkyl Alcohol Alkoxyate	Dermal	similar compounds	LD50 > 2,000 mg/kg
Branched Alkyl Alcohol Alkoxyate	Ingestion	similar compounds	LD50 > 2,000 mg/kg
ETHOXYLATED C9-11 ALCOHOLS	Dermal	similar compounds	LD50 > 2,000 mg/kg
ETHOXYLATED C9-11 ALCOHOLS	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l

ETHOXYLATED C9-11 ALCOHOLS	Ingestion	similar compounds	LD50 3,488 mg/kg
Silicic Acid Metal Salt	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Silicic Acid Metal Salt	Ingestion	Rat	LD50 > 2,000 mg/kg
Na Xylene Sulfonate	Dermal	Rabbit	LD50 > 2,000 mg/kg
Na Xylene Sulfonate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.4 mg/l
Na Xylene Sulfonate	Ingestion	Rat	LD50 7,200 mg/kg
Silanetriol Metal Salt	Ingestion	Rat	LD50 > 2,000 mg/kg
Siloxane Based Defoamer	Dermal	Rabbit	LD50 > 19,400 mg/kg
Siloxane Based Defoamer	Ingestion	Rat	LD50 > 17,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Diethylene Glycol Monoethyl Ether	Rabbit	No significant irritation
Branched Alkyl Alcohol Alkoxyate	Professional judgement	Minimal irritation
ETHOXYLATED C9-11 ALCOHOLS	similar compounds	Minimal irritation
Silicic Acid Metal Salt	Rabbit	Minimal irritation
Na Xylene Sulfonate	Rabbit	Minimal irritation
Silanetriol Metal Salt	Professional judgement	Corrosive
Siloxane Based Defoamer	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Diethylene Glycol Monoethyl Ether	Rabbit	Moderate irritant
Branched Alkyl Alcohol Alkoxyate	Professional judgement	Severe irritant
ETHOXYLATED C9-11 ALCOHOLS	Professional judgement	Moderate irritant
Silicic Acid Metal Salt	Rabbit	Corrosive
Na Xylene Sulfonate	Rabbit	Moderate irritant
Silanetriol Metal Salt	similar health hazards	Corrosive
Siloxane Based Defoamer	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Diethylene Glycol Monoethyl Ether	Human	Not classified
Branched Alkyl Alcohol Alkoxyate	similar compounds	Not classified
ETHOXYLATED C9-11 ALCOHOLS	Guinea pig	Not classified
Na Xylene Sulfonate	Guinea pig	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
Diethylene Glycol Monoethyl Ether	In Vitro	Not mutagenic
Diethylene Glycol Monoethyl Ether	In vivo	Not mutagenic
Branched Alkyl Alcohol Alkoxyate	In Vitro	Not mutagenic
ETHOXYLATED C9-11 ALCOHOLS	In Vitro	Not mutagenic
Na Xylene Sulfonate	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Na Xylene Sulfonate	Dermal	Multiple animal species	Not carcinogenic

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
Diethylene Glycol Monoethyl Ether	Dermal	Not classified for development	Rat	NOAEL 5,500 mg/kg/day	during organogenesis
Diethylene Glycol Monoethyl Ether	Ingestion	Not classified for development	Mouse	NOAEL 5,500 mg/kg/day	during organogenesis
Diethylene Glycol Monoethyl Ether	Inhalation	Not classified for development	Rat	NOAEL 0.6 mg/l	during organogenesis
Diethylene Glycol Monoethyl Ether	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,200 mg/kg/day	2 generation
ETHOXYLATED C9-11 ALCOHOLS	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
ETHOXYLATED C9-11 ALCOHOLS	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
ETHOXYLATED C9-11 ALCOHOLS	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
Na Xylene Sulfonate	Ingestion	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during gestation

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

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Diethylene Glycol Monoethyl Ether	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Branched Alkyl Alcohol Alkoxyate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
ETHOXYLATED C9-11 ALCOHOLS	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Silicic Acid Metal Salt	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL Not available	
Na Xylene Sulfonate	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
Diethylene Glycol Monoethyl Ether	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 1,000 mg/kg/day	12 weeks
Diethylene Glycol Monoethyl Ether	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Pig	NOAEL 167 mg/kg/day	90 days
Diethylene Glycol Monoethyl Ether	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 2,700 mg/kg/day	90 days
Diethylene Glycol Monoethyl Ether	Ingestion	endocrine system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
Diethylene Glycol Monoethyl Ether	Ingestion	heart hematopoietic system nervous system	Not classified	Mouse	NOAEL 8,100 mg/kg/day	90 days
ETHOXYLATED C9-11 ALCOHOLS	Dermal	kidney and/or bladder heart hematopoietic system liver nervous system respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
Silicic Acid Metal Salt	Ingestion	nervous system kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL Not available	
Na Xylene Sulfonate	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
Na Xylene Sulfonate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 763 mg/kg/day	90 days

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

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

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):

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
Diethylene Glycol Monoethyl Ether (CAS NO SEQ548L1)	111-90-0	<= 8

15.2. State Regulations

15.3. Chemical Inventories

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:** 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.

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