



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Defoamer

Product Identification Numbers

ID Number	UPC	ID Number	UPC
70-0711-5629-6	000-48011-34768-4	70-0716-8301-8	000-48011-34768-4

7100023585, 7100126587

1.2. Recommended use and restrictions on use

Recommended use

Defoamer, A concentrated product designed to minimize or eliminate foaming problems of cleaners associated with recovery tanks.

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

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable

Pictograms

Not applicable

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	80 - 100
Polydimethylsiloxane	67762-90-7	1 - 5
Acrylic Polymer	Trade Secret*	< 1
DMDM Hydantoin	6440-58-0	0.05 - 0.1
Sodium Hydroxide	1310-73-2	0.04 - 0.09
MDM Hydantoin	27636-82-4	0.01 - 0.05
Methylchloroisothiazolinone	55965-84-9	0.00025 - 0.00075

*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:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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

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

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus,

bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Observe precautions from other sections. 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.

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. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

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
Sodium Hydroxide	1310-73-2	ACGIH	CEIL:2 mg/m3	
Sodium Hydroxide	1310-73-2	OSHA	TWA:2 mg/m3	
Silica: Amorphous, including natural diatomaceous earth	67762-90-7	OSHA	TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 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

8.2.1. Engineering controls

No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Liquid
Color	White
Odor	Light Odorless
Odor threshold	No Data Available
pH	7 - 8
Melting point	Not Applicable
Boiling Point	212 °F
Flash Point	≥100 °C [Test Method: Closed Cup]
Evaporation rate	< 1 [Ref Std: WATER=1]
Flammability	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	17.5 mmHg [@ 20 °C]
Relative Vapor Density	> 1 [Ref Std: AIR=1]
Density	1 g/ml
Relative Density	1 [Ref Std: WATER=1]
Solubility in Water	Complete
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	Not Applicable
Decomposition temperature	No Data Available
Kinematic Viscosity	99 mm ² /sec
Volatile Organic Compounds	< 0.01 % weight
Percent volatile	< 98 %
VOC Less H ₂ O & Exempt Solvents	< 10 g/l
Particle Characteristics	Not Applicable

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

None known.

10.5. Incompatible materials

None known.

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:

No known health effects.

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Polydimethylsiloxane	Dermal	Rabbit	LD50 > 5,000 mg/kg
Polydimethylsiloxane	Inhalation-Dust/Mist	Rat	LC50 > 0.691 mg/l

	(4 hours)		
Polydimethylsiloxane	Ingestion	Rat	LD50 > 5,110 mg/kg
DMDM Hydantoin	Dermal	Rabbit	LD50 > 1,052 mg/kg
DMDM Hydantoin	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 208 mg/l
DMDM Hydantoin	Ingestion	Rat	LD50 1,572 mg/kg
Methylchloroisothiazolinone	Dermal	Rabbit	LD50 87 mg/kg
Methylchloroisothiazolinone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
Methylchloroisothiazolinone	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Polydimethylsiloxane	Rabbit	No significant irritation
DMDM Hydantoin	Rabbit	Minimal irritation
Sodium Hydroxide	Rabbit	Corrosive
Methylchloroisothiazolinone	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Polydimethylsiloxane	Rabbit	No significant irritation
DMDM Hydantoin	Rabbit	No significant irritation
Sodium Hydroxide	Rabbit	Corrosive
Methylchloroisothiazolinone	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Polydimethylsiloxane	Human and animal	Not classified
DMDM Hydantoin	Guinea pig	Not classified
Sodium Hydroxide	Human	Not classified
Methylchloroisothiazolinone	Human and animal	Sensitizing

Photosensitization

Name	Species	Value
DMDM Hydantoin	Human	Not sensitizing
Methylchloroisothiazolinone	Human and animal	Not sensitizing

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
Polydimethylsiloxane	In Vitro	Not mutagenic
DMDM Hydantoin	In vivo	Not mutagenic
DMDM Hydantoin	In Vitro	Some positive data exist, but the data are not sufficient for classification
Sodium Hydroxide	In Vitro	Not mutagenic

Methylchloroisothiazolinone	In vivo	Not mutagenic
Methylchloroisothiazolinone	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Polydimethylsiloxane	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
Methylchloroisothiazolinone	Dermal	Mouse	Not carcinogenic
Methylchloroisothiazolinone	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Polydimethylsiloxane	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Polydimethylsiloxane	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Polydimethylsiloxane	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
DMDM Hydantoin	Dermal	Not classified for development	Rabbit	NOAEL 2.4 mg/kg/day	during organogenesis
DMDM Hydantoin	Ingestion	Not classified for development	Rabbit	NOAEL 750 mg/kg/day	during organogenesis
Methylchloroisothiazolinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Methylchloroisothiazolinone	Ingestion	Not classified for development	Rat	NOAEL 15 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
Sodium Hydroxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
Methylchloroisothiazolinone	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Polydimethylsiloxane	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Polydimethylsiloxane	Inhalation	silicosis	Not classified	Human	NOAEL Not available	occupational exposure
DMDM Hydantoin	Dermal	skin	Not classified	Rabbit	NOAEL 540 mg/kg/day	91 days
DMDM Hydantoin	Dermal	heart	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	endocrine system	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	gastrointestinal tract	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	bone, teeth, nails,	Not classified	Rabbit	NOAEL 440	28 days

		and/or hair			mg/kg/day	
DMDM Hydantoin	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	liver	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	immune system	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	muscles	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	nervous system	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	respiratory system	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Dermal	vascular system	Not classified	Rabbit	NOAEL 440 mg/kg/day	28 days
DMDM Hydantoin	Ingestion	endocrine system	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	heart	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	skin	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	liver	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	immune system	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	muscles	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	nervous system	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	eyes	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 220 mg/kg/day	90 days
DMDM Hydantoin	Ingestion	respiratory system	Not classified	Rat	NOAEL 220 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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

Not regulated per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M transportation classifications are based on product formulation, packaging, 3M policies and 3M understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

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

Not Applicable.

Health Hazards

Not Applicable.

15.2. State Regulations

Contact 3M for more information.

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: 0 **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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