



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Notification of Ministry of Industry, System of Hazardous Classification and Communication B.E.2555.

SECTION 1: Identification

1.1. Product identifier

ScotchBrite™ Duster Spray

Company: 3M Thailand Ltd.

Address: 12th Floor, Serm-Mitr Tower 159 Asoke Road (Sukhumvit 21) Bangkok 10110 Thailand

Product Identification Numbers

XN-0020-2403-4 XN-0020-2537-9 XN-0020-3475-1

1.2. Recommended use and restrictions on use

Recommended use

Cleaner.

1.3. Supplier's details

ADDRESS: 3M Thailand Limited, Sukhumvit 21, Wattana, Bangkok 10110, Thailand

Telephone: 66(0)22608577

E Mail: 3MThailand@mmm.com

Website: <http://www.3M.com/TH>

1.4. Emergency telephone number

66-2-2608577

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Skin Sensitizer: Category 1.

Acute Aquatic Toxicity: Category 3.

Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

General:

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

Prevention:

P280E Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	90 - 100
Silicone Emulsion	8050-81-5	1 - 5
Fragrance	Mixture	< 2
2-METHYL-4-ISOTHIAZOLINE-3-ONE	2682-20-4	< 0.1
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	26172-55-4	< 0.1

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:

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

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.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat.

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
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	26172-55-4	CMRG	TWA:0.076 mg/m ³ ;STEL:0.23 mg/m ³	Sensitizer
2-METHYL-4-ISOTHIAZOLINE-3-ONE	2682-20-4	CMRG	TWA:1.5 mg/m ³ ;STEL:4.5 mg/m ³	Sensitizer

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Thailand OELs : Thailand. Ministry of Interior, Re: Notification Health and Safety in the Work Environment on chemical B.E.2520

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:

Safety Glasses with side shields

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: 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 – Nitrile

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Appearance/Odor

Characteristic odor, pink liquid.

Odor threshold	No Data Available
pH	5 - 7
Melting point/Freezing point	Not Applicable
Boiling point/Initial boiling point/Boiling range	100 °C
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 Available
Vapor Pressure	No Data Available
Vapor Density	No Data Available
Density	0.975 - 1.015 g/cm ³
Relative Density	0.975 - 1.015 [Ref Std: WATER=1]
Water solubility	Complete
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

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

10.5. Incompatible materials

Not determined

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:

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

Eye Contact:

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

Ingestion:

No known health effects.

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
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Dermal	Rabbit	LD50 87 mg/kg
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.33 mg/l
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Rat	LD50 40 mg/kg
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Dermal	Rabbit	LD50 87 mg/kg
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.33 mg/l
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Rabbit	Corrosive
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Rabbit	Corrosive
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Human and animal	Sensitizing
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Human and animal	Sensitizing

Photosensitization

ScotchBrite™ Duster Spray

Name	Species	Value
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Human and animal	Not sensitizing
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	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
2-METHYL-4-ISOTHIAZOLINE-3-ONE	In vivo	Not mutagenic
2-METHYL-4-ISOTHIAZOLINE-3-ONE	In Vitro	Some positive data exist, but the data are not sufficient for classification
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	In vivo	Not mutagenic
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Dermal	Mouse	Not carcinogenic
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Rat	Not carcinogenic
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Dermal	Mouse	Not carcinogenic
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Rat	Not carcinogenic

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

Name	Route	Value	Species	Test Result	Exposure Duration
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Not toxic to female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Not toxic to male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Not toxic to development	Rat	NOAEL 15 mg/kg/day	during organogenesis
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Not toxic to female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Not toxic to male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	Ingestion	Not toxic to 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
2-METHYL-4-ISOTHIAZOLINE-3-ONE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	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

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

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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
2-METHYL-4-ISOTHIAZOLINE-3-ONE	2682-20-4	Water flea	Experimental	48 hours	Effect Concentration 50%	0.18 mg/l
2-METHYL-4-ISOTHIAZOLINE-3-ONE	2682-20-4	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	0.07 mg/l
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	26172-55-4	Rainbow Trout	Laboratory	96 hours	Lethal Concentration 50%	0.19 mg/l
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	26172-55-4	Water flea	Laboratory	48 hours	Effect Concentration 50%	0.18 mg/l
5-CHLORO-2-METHYL-4-ISOTHIAZOLINE-3-ONE	26172-55-4	Green Algae	Laboratory	96 hours	Effect Concentration 50%	0.062 mg/l
Silicone Emulsion	8050-81-5		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Silicone Emulsion	8050-81-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-METHYL-4-	2682-20-4	Experimental	28 days	Carbon dioxide	48 % weight	Other methods

ScotchBrite™ Duster Spray

ISOTHIAZOLI NE-3-ONE		Biodegradation		evolution		
5-CHLORO-2- METHYL-4- ISOTHIAZOLI NE-3-ONE	26172-55-4	Experimental Biodegradation	21 days	Biological Oxygen Demand	80 % weight	Other methods

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Silicone Emulsion	8050-81-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-METHYL-4- ISOTHIAZOLI NE-3-ONE	2682-20-4	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	0.5	Other methods
5-CHLORO-2- METHYL-4- ISOTHIAZOLI NE-3-ONE	26172-55-4	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	0.45	Other methods

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects**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.

SECTION 14: Transport Information

Not hazardous for transportation.

UN No.: Not applicable

UN Proper Shipping Name: Not applicable

Transport hazard class (IMO): Not applicable

Transport hazard class (IATA): Not applicable

Packing Group: Not applicable

Environmental Hazards:

Not applicable

Special precautions for user

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information.

SECTION 16: Other information

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3M Thailand SDSs are available at <http://www.3M.com/TH>