Safety Data Sheet

This Safety Data Sheet has been prepared in accordance with the Minister of Industry Decree No. 23/M-IND/PER/4/2013 and GHS Classification 4th Edition.

Document Group:	45-4193-4	**Version Number:**	1.00
Issue Date:	07/06/2026	**Supersedes Date:**	Initial Issue

SECTION 1: Identification

1.1. Product identifier
3M Fastbond 1077 Spray Adhesive

Product Identification Numbers
62-1077-2910-5

1.2. Recommended use and restrictions on use

Recommended use
Adhesive

1.3. Supplier's details
ADDRESS: PT 3M Indonesia , Perkantoran Hijau Arkadia, Menara F, Lt. 8. Jl. TB. Simatupang Kav. 88, Jakarta Selatan, 12520, Indonesia
Telephone: +6221-29974000
Website: https://www.3m.co.id/3M/en_ID/company-id/

1.4. Emergency telephone number
(021)29974000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Non-flammable Aerosol: Category 3.
Skin Sensitizer: Category 1A.
Acute Aquatic Toxicity: Category 3.
Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word
Warning

Symbols
Exclamation mark |

Pictograms

HAZARD STATEMENTS:

H229	Pressurized container: may burst if heated.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P280E	Wear protective gloves.

Response:

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

Storage:

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).

2.3. Other hazards

The health hazards of this material are not completely known. See the SDS. Contents under pressure.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	30 - 60
Acrylic Copolymer	Trade Secret	20 - 40
Polymer	Trade Secret	20 - 40
Sorbital	50-70-4	3 - 7
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	< 0.1
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	< 0.004
2-Methyl-4-isothiazoline-3-one	2682-20-4	< 0.002

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

Allergic skin reaction (redness, swelling, blistering, and itching).

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
Use a fire fighting agent suitable for the surrounding fire.

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	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. 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
If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. 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 detergent and 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 pierce or burn, even after 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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

Physical state	Liquid
Specific Physical Form:	Aerosol
Color	Milky White
Odor	Mild Acrylate
Odor threshold	*No Data Available*
pH	<=4.5
Melting point/Freezing point	*Not Applicable*
Boiling point/Initial boiling point/Boiling range	>=100 ºC
Flash Point	No flash point
Evaporation rate	1 [*Ref Std:*WATER=1]
Flammability	Non-flammable Aerosol: Category 3.
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	18 mmHg [@ 68 ºF]
Relative Vapor Density	<=1 [*Ref Std:*AIR=1]
Density	0.99 g/ml
Relative Density	0.99 [*Ref Std:*WATER=1]
Water solubility	Moderate
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	1,616 mm2/sec
Volatile Organic Compounds	<=5 g/l [*Details:*EU VOC content (calculated)]
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	<=20 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Molecular weight	*No Data Available*
Solids Content	40 - 70 %

Particle Characteristics	*Not Applicable*

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
Strong acids
Strong oxidizing agents

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 information available.

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

Eye Contact:
No information available.

Ingestion:
No information available.

Additional Information:
The health hazards of this material are not completely known. Conservative safe handling measures should be followed (as described in sections 7 and 8), and appropriate first aid measures (as described in section 4) should be taken if exposure occurs.

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
Sorbital	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Sorbital	Ingestion	Rat	LD50 15,900 mg/kg
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	Rat	LD50 > 2,000 mg/kg
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Inhalation-	Rat	LC50 > 0.588 mg/l

	Dust/Mist (4 hours)		
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Rat	LD50 193 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 0.171 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 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 0.171 mg/l
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Rabbit	Corrosive
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Rabbit	Corrosive
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive

Sensitization:

Skin Sensitization

Name	Species	Value
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Guinea pig	Not classified
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Sensitizing
2-Methyl-4-isothiazoline-3-one	Human and animal	Sensitizing

Photosensitization

Name	Species	Value
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Not sensitizing
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-BROMO-2-NITRO-1,3-PROPANEDIOL	In vivo	Not mutagenic
2-BROMO-2-NITRO-1,3-PROPANEDIOL	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
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

Carcinogenicity

Name	Route	Species	Value
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic
2-Methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
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-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Not classified for male reproduction	Rat	NOAEL 150 mg/kg/day	2 generation
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Not classified for female reproduction	Rat	NOAEL 50 mg/kg/day	2 generation
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	Not classified for development	Rabbit	NOAEL 10 mg/kg/day	during gestation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	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
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not Available	
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
2-Methyl-4-isothiazoline-3-one	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
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	heart	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	skin	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days

2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	endocrine system	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	gastrointestinal tract	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	liver	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	immune system	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	nervous system	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	eyes	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 5 mg/kg/day	21 days
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	immune system	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	heart	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	endocrine system	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	liver	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	nervous system	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	eyes	Not classified	Rat	NOAEL 160 mg/kg/day	2 years
2-BROMO-2-NITRO-1,3-PROPANEDIOL	Ingestion	respiratory system	Not classified	Rat	NOAEL 160 mg/kg/day	2 years

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
Sorbital	50-70-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Bluegill	Experimental	96 hours	LC50	11 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Diatom	Experimental	72 hours	ErC50	0.178 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Green algae	Experimental	96 hours	ErC50	0.02 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Mysid Shrimp	Experimental	96 hours	LC50	4.3 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Sheepshead Minnow	Experimental	96 hours	LC50	57.6 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Water flea	Experimental	48 hours	EC50	1.4 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Diatom	Experimental	72 hours	NOEC	0.052 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Green algae	Experimental	96 hours	NOEL	0.012 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Rainbow Trout	Experimental	49 days	NOEC	1.94 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Water flea	Experimental	21 days	NOEC	0.27 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Activated sludge	Experimental	150 minutes	EC50	43 mg/l
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Bobwhite quail	Experimental	5 hours	LD50	4,488 mg/kg (Dry Weight)
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Redworm	Experimental	14 days	LC50	>500 mg/kg (Dry Weight)
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Redworm	Experimental	56 days	NOEC	62.5 mg/kg (Dry Weight)
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Soil microbes	Experimental	28 days	EC50	78.1 mg/kg (Dry Weight)
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	72 hours	ErC50	0.007 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Rainbow Trout	Experimental	96 hours	LC50	0.19 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	48 hours	EC50	0.16 mg/l
5-chloro-2-methyl-	26172-55-4	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l

4-isothiazoline-3-one						
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Fathead Minnow	Experimental	36 days	NOEC	0.02 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	21 days	NOEC	0.0111 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.0199 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	0.282 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Rainbow Trout	Experimental	96 hours	LC50	0.19 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	48 hours	EC50	0.16 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Fathead Minnow	Experimental	36 days	NOEC	0.02 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	21 days	NOEC	0.0111 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Sorbital	50-70-4	Experimental Biodegradation	14 days	Biological Oxygen Demand	81 %BOD/ThOD	OECD 301C - MITI (I)
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Biodegradation	28 days	Carbon dioxide evolution	20 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Mod. Sturm or CO2
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Aquatic Inherent Biodegrad.	45 days	Dissolv. Organic Carbon Deplet	50 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Biodegradation	1 hours	Percent degraded	99 %degraded	OECD 314 Simu Biodeg WW
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Photolysis		Photolytic half-life(in water)	24 hours (t 1/2)	
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	2.4 hours (t 1/2)	OECD 111 Hydrolysis func of pH
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Biodegradation	29 days	Carbon dioxide evolution	62 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Mod. Sturm or CO2
5-chloro-2-methyl-4-isothiazoline-3-	26172-55-4	Modeled Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Episuite™

one						
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>60 days (t 1/2)	OECD 111 Hydrolysis func of pH
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Biodegradation	29 days	Carbon dioxide evolution	62 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Mod. Sturm or CO2
2-Methyl-4-isothiazoline-3-one	2682-20-4	Modeled Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Episuite™
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>60 days (t 1/2)	OECD 111 Hydrolysis func of pH

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Sorbital	50-70-4	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-2.20	
2-BROMO-2-NITRO-1,3-PROPANEDIOL	52-51-7	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	0.15	OECD 107 log Kow shke flsk mtd
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Analogous Compound BCF - Fish	42 days	Bioaccumulation Factor	54	OECD305-Bioconcentration
2-Methyl-4-isothiazoline-3-one	2682-20-4	Analogous Compound BCF - Fish	42 days	Bioaccumulation Factor	54	OECD305-Bioconcentration

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other adverse effects
No information available

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. Facility must be capable of handling aerosol cans. 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

Local Regulations
Land Transport: In accordance with Director General of Land Transportation Decree No. SK.725/AJ.302/DRJD/2004 which refer to UN Standard.
Sea Transport: In accordance with Minister of Transportation Decree No. KM 2/2010 which refer to IMDG Code Standard.

International Regulations

UN No.: Not applicable
UN Proper Shipping Name: Not applicable
Transportation Class (IMO): Not applicable

Transportation Class (IATA): Not applicable
Packing Group: Not applicable
Marine Pollutant: 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. 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 material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

Local Inventory Status

Addendum I Government Regulation No. 74/2001:
List of Hazardous Substances Approved for Use :
VINYL ACETATE is listed as a Hazardous Substance Approved for Use.

Addendum II Government Regulation No. 74/2001:
Tab.1 List of Prohibited Substances for Use:
None of the substances are listed as a Prohibited Substance for Use.

Addendum II Government Regulation No. 74/2001:
Tab.2 List of Restricted Substances for Use:
None of the substances are listed as a Restricted Substance for Use.

Addendum I Ministry of Health Regulation No. 472/1996:
List and Classification of Hazardous Substances for Health:
1,4-DIOXANE is listed and classified as a Hazardous Substance for Health.
2,4-DIAMINOTOLUENE is listed and classified as a Hazardous Substance for Health.
ACETALDEHYDE is listed and classified as a Hazardous Substance for Health.

Addendum I Act of Minister of Industry and Trade No. 254/MPP/KEP/2000
List of Hazardous Substances that are Regulated to Import Trade System:
None of the substances are listed and classified as a Hazardous Substance that is Regulated to Import Trade System.

SECTION 16: Other information

Document Group:	45-4193-4	**Version Number:**	1.00
Issue Date:	07/06/2026	**Supersedes Date:**	Initial Issue

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3M Indonesia SDSs are available at https://www.3m.co.id/3M/en_ID/company-id/