

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product identifier.	8FMW2
Product name.	20% WHITE W/B FM BASE (ZIP0W2)
UFI	No Information

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use.	Industrial Wood Coating
Uses advised against.	Professional Use Only

1.3. Details of the supplier of the safety data sheet

Supplier.	Morrells Woodfinishes Ltd Wellington Works Mill Lane, Woodley Stockport SK6 1RN Tel: +44 (0)161 406 5300 Fax: +44 (0)161 406 6276
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EEmail: enquires@morrells.co.uk

1.4. Emergency telephone number

Chemtrec: +1-800-424-9300 USA
Chemtrec: +1 703-527-3887 ex-USA
24 hrs./day, 7 days/week

Europe	112
Austria	+43 1 406 43 43
Belgium	Poison center (BE): +32 70 245 245
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Finland	Poison Information Centre (FI):+358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790 par Poison Center Nord: +49 551 19240 (24h available English / German)
Ireland	National Poisons Information Centre (IE): +353 1 8379964 / + 353 1 8092566
Iceland	+354 543 2222
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Luxembourg	112
Netherlands	National Poisons Information Center (NL): +31 88 755 8000 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO):+ 47 22 591300
Portugal	Poison Information Center (PT): +351 21 330 3284
Spain	Poison Information Service (ES): +34 91 562 04 20
Sweden	Poisons Information Center (SV):+46 8 33 12 31
Switzerland	Poison Center: Tel 145; +41 44 251 51 51
United Kingdom	111 / 0300 020 0155

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Allergic effects

2.2. Label elements

Signal Word

None

Hazardous ingredients which must be listed on the label

Not Applicable

Possible Hazards

6.6% of the mixture consists of ingredient(s) of unknown toxicity

6.6% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

GHS HAZARD STATEMENTS

EUH208

Contains 1,2-Benzisothiazol-3(2H)-one, MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1). May produce an allergic reaction.

2.3. Other hazards

EMERGENCY OVERVIEW: No Information

SECTION 3: Composition/information on ingredients**3.1. Substances**

This product is a mixture. Health hazard information is based on its components.

3.2. Mixtures

Chemical Name	CAS-No.	EC No.	Wt. %
Titanium dioxide	13463-67-7	236-675-5	>=5 - <10
Dipropylene glycol monomethyl ether	34590-94-8	252-104-2	>=1 - <3
GLYCOL ETHER PNB	5131-66-8	225-878-4	>=1 - <3
2,4-PENTANEDIOL, 2-METHYL-	107-41-5	203-489-0	>=0.5 - <1.5
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	203-961-6	<1
1,2-Benzisothiazol-3(2H)-one	2634-33-5	220-120-9	<0.1
Ethylene glycol monobutyl ether	111-76-2	203-905-0	<1
MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1)	55965-84-9	No Information	<0.1
ACETIC ACID	64-19-7	200-580-7	<1

Chemical Name	Classification (1272/2008/EC)	Specific Conc. Limits, M-factors and ATEs
Titanium dioxide	Not classified	ATE oral (mg/kg): N.R. ATE dermal (mg/kg): N.R. ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R.
Dipropylene glycol monomethyl ether	Not classified	ATE oral (mg/kg): 5350 mg/kg Rat ATE dermal (mg/kg): 9500 mg/kg Rabbit
GLYCOL ETHER PNB	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	ATE oral (mg/kg): 3300 mg/kg Rat ATE dermal (mg/kg): >2000 mg/kg Rat ATE inhalation - vapor (mg/l/4h): N.R.
2,4-PENTANEDIOL, 2-METHYL-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 1 Inhalation (H330)	ATE oral (mg/kg): 3700 mg/kg Rat ATE dermal (mg/kg): 12300 mg/kg Rabbit ATE inhalation - vapor (mg/l/4h): >.3 mg/L Rat
2-(2-BUTOXYETHOXY)ETHANOL	Eye Irrit. 2 (H319)	ATE oral (mg/kg): 5660 mg/kg Rat ATE dermal (mg/kg): 2700 mg/kg Rabbit ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R.
1,2-Benzisothiazol-3(2H)-one	Acute Tox. 2 Oral (H300) Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	ATE oral (mg/kg): 4 ATE dermal (mg/kg): N.R. ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R. M-Factors: 1
Ethylene glycol monobutyl ether	Acute Tox. 4 Oral (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 2 Inhalation (H330)	ATE oral (mg/kg): 470 mg/kg Rat ATE dermal (mg/kg): >2000 mg/kg Rabbit ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R.
MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1)	EUH071 Acute Tox. 3 Oral (H301) Acute Tox. 2 Dermal (H310) Skin Corr. 1C (H314) Skin Sens. 1A (H317) Acute Tox. 2 Inhalation (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	ATE oral (mg/kg): 53 mg/kg Rat ATE dermal (mg/kg): 87.12 mg/kg Rabbit M-Factors: 100

ACETIC ACID	Flam. Liq. 3 (H226) Acute Tox. 4 Dermal (H312) Skin Corr. 1A (H314)	ATE oral (mg/kg): N.R. ATE dermal (mg/kg): 1060 mg/kg Rabbit ATE inhalation - vapor (mg/l/4h): N.R.
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For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice.

Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice. Use personal protective equipment. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin. See section 8 for more information.

Inhalation.

Remove from exposure, lie down. Keep victim warm and quiet. If unconscious place in recovery position and seek medical advice. Artificial respiration and/or oxygen may be necessary. Administer oxygen if breathing is difficult. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.

Skin contact.

Allergic symptoms may develop within 12 hours after exposure. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.

Eye contact.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May produce an allergic reaction. Do not rub affected area. Call a physician if irritation develops or persists.

Ingestion.

Rinse mouth. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice. Allergic symptoms may develop within 12 hours after exposure.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Hives. Itching. Rashes. May cause allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician.

Treat symptomatically. May cause sensitization of susceptible persons. Effects of contact or inhalation may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media.

No Information

Extinguishing media which shall not be used for safety reasons.

None

5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.
Refer to protective measures listed in sections 7 and 8.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions.

Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and inhalation of vapors. Wash thoroughly after handling. Wear appropriate respiratory protection and protective clothing as described in Section VIII.

Advice for emergency responders.

Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Do not allow material to contaminate ground water system. See Section 12 for additional Ecological information. Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up**Methods for Containment.**

Soak up with inert absorbent material. Place into closed container and store in a safe location to await disposal. Wash the spill area with soap and water. Change contaminated clothing and laundry before re-use. Wear proper personal protective clothing and equipment.

Methods for cleaning up.

No Information

Other information.

Use personal protective equipment as required.

6.4. Reference to other sections

See Section 8, 13 for additional information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling.**

Remove and wash contaminated clothing before re-use. In case of insufficient ventilation, wear suitable respiratory equipment. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Keep container closed when not in use.

Hygiene measures.

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions.**

Keep in properly labeled containers. Keep out of the reach of children. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3. Specific end use(s)**Specific use(s).**

No Information

Exposure scenario.

No Information Available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limit Values**

Chemical Name	Austria	Belgium	Denmark	European Union.	Finland	France
Titanium dioxide 13463-67-7	STEL: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³	TWA: 6 mg/m ³	N.D.	N.D.	TWA: 10 mg/m ³
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 100 ppm STEL: 614 mg/m ³ TWA: 50 ppm TWA: 307 mg/m ³	TWA: 50 ppm TWA: 308 mg/m ³	TWA: 50 ppm TWA: 309 mg/m ³	TWA: 50 ppm TWA: 308 mg/m ³	TWA: 50 ppm TWA: 310 mg/m ³	TWA: 50 ppm TWA: 308 mg/m ³
GLYCOL ETHER PNB 5131-66-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2,4-PENTANEDIOL, 2-METHYL- 107-41-5	STEL: 10 ppm STEL: 49 mg/m ³ TWA: 10 ppm TWA: 49 mg/m ³	STEL: 25 ppm STEL: 123 mg/m ³	N.D.	N.D.	STEL: 40 ppm STEL: 200 mg/m ³ TWA: 25 ppm TWA: 120 mg/m ³	STEL: 25 ppm STEL: 125 mg/m ³

Chemical Name	Austria	Belgium	Denmark	European Union.	Finland	France
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³
1,2-Benzisothiazol-3(2H)-one 2634-33-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethylene glycol monobutyl ether 111-76-2	STEL: 40 ppm STEL: 200 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	TWA: 20 ppm TWA: 98 mg/m ³	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	STEL: 50 ppm STEL: 250 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 10 ppm TWA: 49 mg/m ³
MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1) 55965-84-9	TWA: 0.05 mg/m ³	N.D.	N.D.	N.D.	N.D.	N.D.
ACETIC ACID 64-19-7	STEL: 20 ppm STEL: 50 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³	STEL: 15 ppm STEL: 38 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³	TWA: 10 ppm TWA: 25 mg/m ³	STEL: 50 mg/m ³ STEL: 20 ppm TWA: 25 mg/m ³ TWA: 10 ppm	STEL: 10 ppm STEL: 25 mg/m ³ TWA: 5 ppm TWA: 13 mg/m ³	STEL: 20 ppm STEL: 50 mg/m ³ TWA: 10 ppm TWA: 25 mg/m ³
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	Netherlands
Titanium dioxide 13463-67-7	STEL: 2.4 mg/m ³ TWA: 0.3 mg/m ³	TWA: 6 mg/m ³	STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³	N.D.	N.D.	N.D.
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 50 ppm STEL: 310 mg/m ³ TWA: 50 ppm TWA: 310 mg/m ³	TWA: 50 ppm TWA: 300 mg/m ³	STEL: 150 ppm STEL: 924 mg/m ³ TWA: 50 ppm TWA: 308 mg/m ³	TWA: 50 ppm TWA: 308 mg/m ³	TWA: 308 mg/m ³ TWA: 50 ppm	TWA: 48.7 ppm TWA: 300 mg/m ³
GLYCOL ETHER PNB 5131-66-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2,4-PENTANEDIOL, 2-METHYL- 107-41-5	STEL: 20 ppm STEL: 98 mg/m ³ TWA: 10 ppm TWA: 49 mg/m ³	STEL: 25 ppm STEL: 125 mg/m ³	STEL: 25 ppm STEL: 125 mg/m ³	N.D.	N.D.	N.D.
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	STEL: 15 ppm STEL: 100.5 mg/m ³ TWA: 67 mg/m ³ TWA: 10 ppm	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 14.8 ppm STEL: 100 mg/m ³ TWA: 7.4 ppm TWA: 50 mg/m ³
1,2-Benzisothiazol-3(2H)-one 2634-33-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethylene glycol monobutyl ether 111-76-2	STEL: 20 ppm STEL: 98 mg/m ³ TWA: 10 ppm TWA: 49 mg/m ³	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 100 mg/m ³ TWA: 25 ppm	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20.4 ppm TWA: 100 mg/m ³
MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1) 55965-84-9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	Netherlands
ACETIC ACID 64-19-7	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3	STEL: 50 mg/m3 STEL: 20 ppm TWA: 25 ppm TWA: 10 mg/m3	STEL: 50 mg/m3 STEL: 20 ppm TWA: 10 ppm TWA: 25 mg/m3	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	United Kingdom
Titanium dioxide 13463-67-7	STEL: 10 mg/m3 TWA: 5 mg/m3	TWA: 10 mg/m3	TWA: 10 mg/m3	TWA: 5 mg/m3	TWA: 3 mg/m3 TWA: 3 mg/m3 TWA: 10 mg/m3	STEL: 30 mg/m3 STEL: 12 mg/m3 TWA: 10 mg/m3 TWA: 4 mg/m3
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 75 ppm STEL: 375 mg/m3 TWA: 50 ppm TWA: 300 mg/m3	STEL: 150 ppm TWA: 50 ppm TWA: 308 mg/m3	TWA: 50 ppm TWA: 308 mg/m3	STEL: 75 ppm STEL: 450 mg/m3 TWA: 50 ppm TWA: 300 mg/m3	STEL: 50 ppm STEL: 300 mg/m3 TWA: 50 ppm TWA: 300 mg/m3	STEL: 150 ppm STEL: 924 mg/m3 TWA: 50 ppm TWA: 308 mg/m3
GLYCOL ETHER PNB 5131-66-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2,4-PENTANEDIOL, 2-METHYL- 107-41-5	N.D.	N.D.	STEL: 25 ppm STEL: 123 mg/m3	STEL: 25 ppm STEL: 120 mg/m3	STEL: 20 ppm STEL: 98 mg/m3 TWA: 10 ppm TWA: 49 mg/m3	STEL: 25 ppm STEL: 123 mg/m3 TWA: 25 ppm TWA: 123 mg/m3
2-(2-BUTOXYETHOXY)ETHANOL 112-34-5	STEL: 20 ppm STEL: 102 mg/m3 TWA: 10 ppm TWA: 68 mg/m3	STEL: 101.2 mg/m3 STEL: 15 ppm TWA: 10 ppm TWA: 67.5 mg/m3	STEL: 15 ppm STEL: 101.2 mg/m3 TWA: 10 ppm TWA: 67.5 mg/m3	STEL: 15 ppm STEL: 101 mg/m3 TWA: 10 ppm TWA: 68 mg/m3	STEL: 15 ppm STEL: 101 mg/m3 TWA: 10 ppm TWA: 67 mg/m3	STEL: 15 ppm STEL: 101.2 mg/m3 TWA: 10 ppm TWA: 67.5 mg/m3
1,2-Benzisothiazol-3(2H)-one 2634-33-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethylene glycol monobutyl ether 111-76-2	STEL: 20 ppm STEL: 75 mg/m3 TWA: 10 ppm TWA: 50 mg/m3	STEL: 50 ppm STEL: 246 mg/m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 245 mg/m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 246 mg/m3 TWA: 10 ppm TWA: 50 mg/m3	STEL: 20 ppm STEL: 98 mg/m3 TWA: 10 ppm TWA: 49 mg/m3	STEL: 50 ppm STEL: 246 mg/m3 TWA: 25 ppm TWA: 123 mg/m3
MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1) 55965-84-9	N.D.	N.D.	N.D.	N.D.	STEL: 0.4 mg/m3 TWA: 0.2 mg/m3	N.D.
ACETIC ACID 64-19-7	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3	STEL: 10 ppm STEL: 25 mg/m3 TWA: 5 ppm TWA: 13 mg/m3	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3	STEL: 20 ppm STEL: 50 mg/m3 TWA: 10 ppm TWA: 25 mg/m3

TWA: Time weighted average

STEL: Short term exposure limit.

EU - REACH (1906/2006) Registration Data - Derived No Effect Levels (DNELs)

Chemical Name	CAS Number	DNEL
Dipropylene glycol monomethyl ether	34590-94-8	general population oral systemic effects long term exposure 36 mg/kg bw/day DNEL (252-104-2); general population inhalation systemic effects long term exposure 37.2 mg/m3 DNEL (252-104-2); general population dermal systemic effects long term exposure 121 mg/kg bw/day DNEL (252-104-2); workers dermal systemic effects long term exposure 283 mg/kg bw/day DNEL (252-104-2); workers inhalation systemic effects long term exposure 308 mg/m3 DNEL (252-104-2)

Chemical Name	CAS Number	DNEL
GLYCOL ETHER PNB	5131-66-8	general population oral systemic effects long term exposure 12.5 mg/kg bw/day DNEL (225-878-4); general population dermal systemic effects long term exposure 22 mg/kg bw/day DNEL (225-878-4); general population inhalation systemic effects long term exposure 43 mg/m3 DNEL (225-878-4); workers dermal local effects long term exposure 50 % in mixture (weight basis) DNEL (225-878-4); workers dermal local effects acute/short term exposure 50 % in mixture (weight basis) DNEL (225-878-4); general population dermal local effects long term exposure 50 % in mixture (weight basis) DNEL (225-878-4); general population dermal local effects acute/short term exposure 50 % in mixture (weight basis) DNEL (225-878-4); workers dermal systemic effects long term exposure 52 mg/kg bw/day DNEL (225-878-4); workers inhalation systemic effects long term exposure 147 mg/m3 DNEL (225-878-4)
2,4-PENTANEDIOL, 2-METHYL-	107-41-5	general population oral systemic effects long term exposure 1.5 mg/kg bw/day DNEL (203-489-0); general population inhalation systemic effects long term exposure 7.8 mg/m3 DNEL (203-489-0); general population dermal systemic effects long term exposure 15 mg/kg bw/day DNEL (203-489-0); general population inhalation local effects long term exposure 25 mg/m3 DNEL (203-489-0); workers dermal systemic effects long term exposure 42 mg/kg bw/day DNEL (203-489-0); workers inhalation systemic effects long term exposure 44.4 mg/m3 DNEL (203-489-0); workers inhalation local effects long term exposure 49 mg/m3 DNEL (203-489-0); general population inhalation local effects acute/short term exposure 49 mg/m3 DNEL (203-489-0); workers inhalation local effects acute/short term exposure 98 mg/m3 DNEL (203-489-0)
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	general population oral systemic effects long term exposure 5 mg/kg bw/day DNEL (203-961-6); general population inhalation systemic effects long term exposure 40.5 mg/m3 DNEL (203-961-6); general population inhalation local effects long term exposure 40.5 mg/m3 DNEL (203-961-6); general population dermal systemic effects long term exposure 50 mg/kg bw/day DNEL (203-961-6); general population inhalation local effects acute/short term exposure 60.7 mg/m3 DNEL (203-961-6); workers inhalation systemic effects long term exposure 67.5 mg/m3 DNEL (203-961-6); workers inhalation local effects long term exposure 67.5 mg/m3 DNEL (203-961-6); workers dermal systemic effects long term exposure 83 mg/kg bw/day DNEL (203-961-6); workers inhalation local effects acute/short term exposure 101.2 mg/m3 DNEL (203-961-6)
1,2-Benzisothiazol-3(2H)-one	2634-33-5	general population dermal systemic effects long term exposure 0.345 mg/kg bw/day DNEL (220-120-9); workers dermal systemic effects long term exposure 0.966 mg/kg bw/day DNEL (220-120-9); general population inhalation systemic effects long term exposure 1.2 mg/m3 DNEL (220-120-9); workers inhalation systemic effects long term exposure 6.81 mg/m3 DNEL (220-120-9)

Chemical Name	CAS Number	DNEL
Ethylene glycol monobutyl ether	111-76-2	general population oral systemic effects long term exposure 6.3 mg/kg bw/day DNEL (203-905-0); general population oral systemic effects acute/short term exposure 26.7 mg/kg bw/day DNEL (203-905-0); general population inhalation systemic effects long term exposure 59 mg/m3 DNEL (203-905-0); general population dermal systemic effects long term exposure 75 mg/kg bw/day DNEL (203-905-0); workers dermal systemic effects acute/short term exposure 89 mg/kg bw/day DNEL (203-905-0); general population dermal systemic effects acute/short term exposure 89 mg/kg bw/day DNEL (203-905-0); workers inhalation systemic effects long term exposure 98 mg/m3 DNEL (203-905-0); workers dermal systemic effects long term exposure 125 mg/kg bw/day DNEL (203-905-0); general population inhalation local effects acute/short term exposure 147 mg/m3 DNEL (203-905-0); workers inhalation local effects acute/short term exposure 246 mg/m3 DNEL (203-905-0); general population inhalation systemic effects acute/short term exposure 426 mg/m3 DNEL (203-905-0); workers inhalation systemic effects acute/short term exposure 1091 mg/m3 DNEL (203-905-0)
MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1)	55965-84-9	workers inhalation local effects long term exposure 0.02 mg/m3 DNEL (911-418-6); general population inhalation local effects long term exposure 0.02 mg/m3 DNEL (911-418-6); workers inhalation local effects acute/short term exposure 0.04 mg/m3 DNEL (911-418-6); general population inhalation local effects acute/short term exposure 0.04 mg/m3 DNEL (911-418-6); general population oral systemic effects long term exposure 0.09 mg/kg bw/day DNEL (911-418-6); general population oral systemic effects acute/short term exposure 0.11 mg/kg bw/day DNEL (911-418-6)
ACETIC ACID	64-19-7	workers inhalation local effects long term exposure 25 mg/m3 DNEL (200-580-7); workers inhalation local effects acute/short term exposure 25 mg/m3 DNEL (200-580-7); general population inhalation local effects long term exposure 25 mg/m3 DNEL (200-580-7); general population inhalation local effects acute/short term exposure 25 mg/m3 DNEL (200-580-7)

EU - REACH (1906/2006) Registration Data - Predicted No Effect Concentrations (PNECs)

Chemical Name	CAS Number	PNEC
Dipropylene glycol monomethyl ether	34590-94-8	19 mg/L PNEC (freshwater, 252-104-2); 1.9 mg/L PNEC (marine water, 252-104-2); 190 mg/L PNEC (freshwater (intermittent releases), 252-104-2); 70.2 mg/kg sediment dw PNEC (sediment (freshwater), 252-104-2); 7.02 mg/kg sediment dw PNEC (sediment (marine water), 252-104-2); 4168 mg/L PNEC (sewage treatment, 252-104-2); 2.74 mg/kg soil dw PNEC (soil, 252-104-2)
GLYCOL ETHER PNB	5131-66-8	0.525 mg/L PNEC (freshwater, 225-878-4); 0.0525 mg/L PNEC (marine water, 225-878-4); 5.25 mg/L PNEC (freshwater (intermittent releases), 225-878-4); 2.36 mg/kg sediment dw PNEC (sediment (freshwater), 225-878-4); 0.236 mg/kg sediment dw PNEC (sediment (marine water), 225-878-4); 10 mg/L PNEC (sewage treatment, 225-878-4); 0.16 mg/kg soil dw PNEC (soil, 225-878-4)
2,4-PENTANEDIOL, 2-METHYL-	107-41-5	0.429 mg/L PNEC (freshwater, 203-489-0); 0.0429 mg/L PNEC (marine water, 203-489-0); 4.29 mg/L PNEC (freshwater (intermittent releases), 203-489-0); 1.59 mg/kg sediment dw PNEC (sediment (freshwater), 203-489-0); 0.159 mg/kg sediment dw PNEC (sediment (marine water), 203-489-0); 20 mg/L PNEC (sewage treatment, 203-489-0); 0.066 mg/kg soil dw PNEC (soil, 203-489-0)
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	1.1 mg/L PNEC (freshwater, 203-961-6); 0.11 mg/L PNEC (marine water, 203-961-6); 11 mg/L PNEC (freshwater (intermittent releases), 203-961-6); 56 mg/kg food PNEC (food chain, 203-961-6); 4.4 mg/kg sediment dw PNEC (sediment (freshwater), 203-961-6); 0.44 mg/kg sediment dw PNEC (sediment (marine water), 203-961-6); 200 mg/L PNEC (sewage treatment, 203-961-6); 0.32 mg/kg soil dw PNEC (soil, 203-961-6)

Chemical Name	CAS Number	PNEC
1,2-Benzisothiazol-3(2H)-one	2634-33-5	4.03 µg/L PNEC (freshwater, 220-120-9); 0.403 µg/L PNEC (marine water, 220-120-9); 1.1 µg/L PNEC (freshwater (intermittent releases), 220-120-9); 110 ng/L PNEC (marine water (intermittent releases), 220-120-9); 49.9 µg/kg sediment dw PNEC (sediment (freshwater), 220-120-9); 4.99 µg/kg sediment dw PNEC (sediment (marine water), 220-120-9); 1.03 mg/L PNEC (sewage treatment, 220-120-9); 3 mg/kg soil dw PNEC (soil, 220-120-9)
Ethylene glycol monobutyl ether	111-76-2	8.8 mg/L PNEC (freshwater, 203-905-0); 0.88 mg/L PNEC (marine water, 203-905-0); 26.4 mg/L PNEC (freshwater (intermittent releases), 203-905-0); 0.02 g/kg food PNEC (food chain, 203-905-0); 34.6 mg/kg sediment dw PNEC (sediment (freshwater), 203-905-0); 3.46 mg/kg sediment dw PNEC (sediment (marine water), 203-905-0); 463 mg/L PNEC (sewage treatment, 203-905-0); 2.33 mg/kg soil dw PNEC (soil, 203-905-0)
MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1)	55965-84-9	3.39 µg/L PNEC (freshwater, 911-418-6); 3.39 µg/L PNEC (marine water, 911-418-6); 3.39 µg/L PNEC (freshwater (intermittent releases), 911-418-6); 3.39 µg/L PNEC (marine water (intermittent releases), 911-418-6); 0.027 mg/kg sediment dw PNEC (sediment (freshwater), 911-418-6); 0.027 mg/kg sediment dw PNEC (sediment (marine water), 911-418-6); 0.23 mg/L PNEC (sewage treatment, 911-418-6); 0.01 mg/kg soil dw PNEC (soil, 911-418-6)
ACETIC ACID	64-19-7	3.058 mg/L PNEC (freshwater, 200-580-7); 0.3058 mg/L PNEC (marine water, 200-580-7); 30.58 mg/L PNEC (freshwater (intermittent releases), 200-580-7); 11.36 mg/kg sediment dw PNEC (sediment (freshwater), 200-580-7); 1.136 mg/kg sediment dw PNEC (sediment (marine water), 200-580-7); 85 mg/L PNEC (sewage treatment, 200-580-7); 0.47 mg/kg soil dw PNEC (soil, 200-580-7)

EU - REACH (1906/2006) Article 59(1) - Candidate Substances of Very High Concern (SVHC)

None

8.2. Exposure controls**Engineering Measures.**

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal protective equipment.**Eye/Face Protection.**

No special protective equipment required.

Skin and body protection.

Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Follow the skin protection plan. Wear suitable protective clothing.

The selected protective gloves have to satisfy the specifications of EU Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Respiratory protection.

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Breathing apparatus with filter. Respirator with a vapor filter (EN 141).

Environmental Exposure Controls.

No Information

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	No Information
Colour	White
Odour	No Information
Odour Threshold	No Information
pH	No Information

Melting Point, °C	No Information
Flash Point, °C	63
Boiling Range, °C	100 - 3,000
Combustibility	Does not Support Combustion
Vapor Pressure, mmHg	No Information
Vapor density	No Information
Specific Gravity (g/cm3)	Not Applicable
Solubility in water	No Information
Partition Coefficient, n-octanol/water	No Information
Auto-Ignition Temperature, °C	No Information
Decomposition temperature, °C	No Information
Viscosity	No Information

9.2. Other information

Volatile organic compounds (VOC) content. 78.889730486

9.2.1. Information with regard to physical hazard classes

No Information

9.2.2. Other safety characteristics

Evaporation rate No Information Available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

None known based on information supplied.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute toxicity.**

Based on available data, the classification criteria are not met.

Product Information

The product itself has not been tested

Data on individual components are tabulated below

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	N.R.
ATEmix (dermal)	N.R.
ATEmix (inhalation-vapor)	23.20 mg/l

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
13463-67-7	Titanium dioxide	N.R.	N.R.	N.R.
34590-94-8	Dipropylene glycol monomethyl ether	5350 mg/kg Rat	9500 mg/kg Rabbit	N.R.
5131-66-8	GLYCOL ETHER PNB	3300 mg/kg Rat	>2000 mg/kg Rat	N.R.
107-41-5	2,4-PENTANEDIOL, 2-METHYL-	3700 mg/kg Rat	12300 mg/kg Rabbit	>.3 mg/L Rat
112-34-5	2-(2-BUTOXYETHOXY)ETHANOL	5660 mg/kg Rat	2700 mg/kg Rabbit	N.R.
2634-33-5	1,2-Benzisothiazol-3(2H)-one	4	N.R.	N.R.
111-76-2	Ethylene glycol monobutyl ether	470 mg/kg Rat	>2000 mg/kg Rabbit	450 ppm, 486 ppm Rat

55965-84-9	MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1)	53 mg/kg Rat	87.12 mg/kg Rabbit	N.R.
64-19-7	ACETIC ACID	N.R.	1060 mg/kg Rabbit	N.R.

Skin corrosion/irritation.

May cause allergic skin reaction. SKIN IRRITANT.

Respiratory or skin sensitization.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

11.2. Information on other hazards**Endocrine disrupting properties**

N.A.

Other information.

N.A.

SECTION 12: Ecological information

12.1. Toxicity

12.95% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Ecotoxicity effects.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia.
Titanium dioxide 13463-67-7	N.D.	N.D.	N.D.
Dipropylene glycol monomethyl ether 34590-94-8	N.D.	LC50 96 h Pimephales promelas >10000 mg/L	LC50 48 h Daphnia magna 1919 mg/L
GLYCOL ETHER PNB 5131-66-8	N.D.	N.D.	N.D.
2,4-PENTANEDIOL, 2-METHYL- 107-41-5	N.D.	LC50 96 h Pimephales promelas 10500 - 11000 mg/L, LC50 96 h Lepomis macrochirus 10000 mg/L, LC50 96 h Pimephales promelas 8690 mg/L, LC50 96 h Pimephales promelas 10700 mg/L	EC50 48 h Daphnia magna 2700 - 3700 mg/L
2-(2-BUTOXYETHOXY) ETHANOL 112-34-5	EC50 96 h Desmodesmus subspicatus >100 mg/L	LC50 96 h Lepomis macrochirus 1300 mg/L	EC50 48 h Daphnia magna >100 mg/L
1,2-Benzisothiazol-3(2H)-one 2634-33-5	N.D.	N.D.	N.D.
Ethylene glycol monobutyl ether 111-76-2	N.D.	LC50 96 h Lepomis macrochirus 1490 mg/L, LC50 96 h Lepomis macrochirus 2950 mg/L	EC50 48 h Daphnia magna >1000 mg/L
MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1) 55965-84-9	N.D.	N.D.	N.D.
ACETIC ACID 64-19-7	N.D.	LC50 96 h Pimephales promelas 79 mg/L, LC50 96 h Lepomis macrochirus 75 mg/L	EC50 48 h Daphnia magna 65 mg/L

12.2. Persistence and degradability

No data are available on the product itself

12.3. Bioaccumulative potential

No Information

CAS-No.	Chemical Name	Bio. Conc. Factor (BCF)	Octanol-water par. Coeff (KOW)
13463-67-7	Titanium dioxide	N.I.	N.I.
34590-94-8	Dipropylene glycol monomethyl ether	N.I.	0.35
5131-66-8	GLYCOL ETHER PNB	N.I.	1.2
107-41-5	2,4-PENTANEDIOL, 2-METHYL-	N.I.	<0.14
112-34-5	2-(2-BUTOXYETHOXY)ETHANOL	N.I.	1
2634-33-5	1,2-Benzisothiazol-3(2H)-one	N.I.	0.99
111-76-2	Ethylene glycol monobutyl ether	N.I.	0.81
55965-84-9	MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1)	N.I.	>=-0.32 - <=0.7
64-19-7	ACETIC ACID	N.I.	-0.17

12.4. Mobility in soil**Mobility in soil.**

No information available

12.5. Results of PBT and vPvB assessment

No data are available on the product itself

12.6. Endocrine disrupting properties

No information available

12.7. Other adverse effects

No information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste from residues / unused products.**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of contents/container to an approved waste disposal plant.

Contaminated packaging.

Do not re-use empty containers.

Other information.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14: Transport information**ADR**

14.1. UN number or ID number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	No Information
14.4. Packing group	No Information
14.5. Environmental hazards	No.
14.6. Special precautions for user	No Information

IMDG

14.1. UN number or ID number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	No Information
14.4. Packing group	No Information
14.5 Marine Pollutant	No.
Environmental hazards	No.
14.6. Special precautions for user	No Information
14.7. Maritime transport in bulk according to IMO instruments	No Information

IATA

14.1. UN number or ID number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	No Information
14.4. Packing group	No Information
14.5. Environmental hazards	No.
14.6. Special precautions for user	No Information

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**National regulatory information.****French table of occupational diseases**

CAS-No.	Chemical Name	French table of occupational diseases
34590-94-8	Dipropylene glycol monomethyl ether	RG 84
5131-66-8	GLYCOL ETHER PNB	RG 84
107-41-5	2,4-PENTANEDIOL, 2-METHYL-	RG 84
112-34-5	2-(2-BUTOXYETHOXY)ETHANOL	RG 84
2634-33-5	1,2-Benzisothiazol-3(2H)-one	RG 65
111-76-2	Ethylene glycol monobutyl ether	RG 84

European Union.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Persistent Organic Pollutants

Not applicable

Authorizations and/or restrictions on use:

CAS-No.	Chemical Name	Substance subject to authorization per REACH Annex XIV	Restricted substance per REACH Annex XVII
13463-67-7	Titanium dioxide	No.	Yes.
5131-66-8	GLYCOL ETHER PNB	No.	Yes.
107-41-5	2,4-PENTANEDIOL, 2-METHYL-	No.	Yes.
112-34-5	2-(2-BUTOXYETHOXY)ETHANOL	No.	Yes.
2634-33-5	1,2-Benzisothiazol-3(2H)-one	No.	Yes.
111-76-2	Ethylene glycol monobutyl ether	No.	Yes.
55965-84-9	MIXTURE OF 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2 H-ISOTHIAZOL-3-ONE (3:1)	No.	Yes.
64-19-7	ACETIC ACID	No.	Yes.

EU Substances of Very High Concern

None

International Inventories.

TSCA	Contains Non Listed Components
DSL	Contains Non Listed Components
EINECS/ELINCS	Contains Non Listed Components
ENCS	Contains Non Listed Components
IECSC	Contains Non Listed Components
KECI	Contains Non Listed Components
PICCS	Contains Non Listed Components

AIIC	Contains Non Listed Components
NZIoC	Contains Non Listed Components
TSCA	United States Toxic Substances Control Act Section 8(b) Inventory.
DSL	Canadian Domestic Substances List.
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
ENCS	Japan Existing and New Chemical Substances.
IECSC	China Inventory of Existing Chemical Substances.
KECL	Korean Existing and Evaluated Chemical Substances.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
AIIC	Australian Inventory of Industrial Chemicals.
NZIoC	New Zealand Inventory of Chemicals.

15.2. Chemical safety assessment

No.

SECTION 16: Other information

Revision Date 11/21/2024

Indication of changes: Commission Regulation (EU) 2020/878: amending Annex II by introducing specific requirements regarding nanoforms of substances, adapting to the 6th and 7th revision of the GHS, and adding requirements regarding the Unique Formula Identifier (as set by Annex VIII to Regulation (EC) 1272/2008), endocrine disrupting properties, specific concentration limits, M-factors and acute toxicity estimates.

Legend.

N.D.	No data available.
N.I.	No information available.
N.A.	Not Applicable.
N.R.	Not relevant.

This safety datasheet complies with the requirements of Regulation (EC) No. 2020/878

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.