Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier
Wheel & Paint Iron DECON (Detailer) D1801 [D180101 D180105]

Product Identification Numbers
14-1001-1950-3 14-1001-5532-5

7100206013 7100315525

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

Identified uses
Automotive.

1.3. Details of the supplier of the safety data sheet

Address:	3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.
Telephone:	+353 1 280 3555
E Mail:	tox.uk@mmm.com
Website:	www.3M.com

1.4. Emergency telephone number
Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Acute Toxicity, Category 4 - Acute Tox. 4; H302
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Sensitization, Category 1 - Skin Sens. 1; H317

For full text of H phrases, see Section 16.

2.2. Label elements
CLP REGULATION (EC) No 1272/2008

SIGNAL WORD
WARNING.

Symbols
GHS07 (Exclamation mark) |

Pictograms

Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
Acetic acid, mercapto-, monoammonium salt	5421-46-5	226-540-9	10 - 30
2-butoxyethanol	111-76-2	203-905-0	0.5 - 1.5
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	68585-47-7	271-557-7	0.5 - 1.5

HAZARD STATEMENTS:

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS

Prevention:

P280E	Wear protective gloves.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

3% of the mixture consists of components of unknown acute inhalation toxicity.
Contains 1% of components with unknown hazards to the aquatic environment.

Information required per Regulation (EU) No 528/2012 on Biocidal Products:
Contains a biocidal product (preservative): C(M)IT/MIT (3:1).

Notes on labelling
Updated per Regulation (EC) No. 648/2004 on detergents.
Ingredients required per 648/2004 (not required on industrial label): <5%: Anionic surfactants, non-ionic surfactants.
Contains: Mixture of Methylchloroisothiazolinone and Methylisothiazolinone.

2.3. Other hazards

None known.
This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Non-Hazardous Ingredients	Mixture	60 - 100	Substance not classified as hazardous
Acetic acid, mercapto-, monoammonium salt	(CAS-No.) 5421-46-5 (EC-No.) 226-540-9	10 - 30	Met. Corr. 1, H290 Acute Tox. 3, H301 Skin Sens. 1A, H317
2-(2-Ethoxyethoxy)ethanol	(CAS-No.) 111-90-0 (EC-No.) 203-919-7 (REACH-No.) 01-2119475105-42	1 - 5	Substance not classified as hazardous
Sodium Xylenesulphonate	(CAS-No.) 1300-72-7 (EC-No.) 215-090-9	1 - 5	Eye Irrit. 2, H319
Sodium Laurylpolyethoxyethanol Sulphate	(CAS-No.) 68891-38-3 (EC-No.) 500-234-8	1 - 5	Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Dam. 1, H318
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	(CAS-No.) 68585-47-7 (EC-No.) 271-557-7	0.5 - 1.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (REACH-No.) 01-2119475108-36	0.5 - 1.5	Acute Tox. 3, H331 Acute Tox. 4, H302(LD50 = 1200 mg/kg **ATE values per Annex VI**) Skin Irrit. 2, H315 Eye Irrit. 2, H319
Alcohols, C12-16, ethoxylated	(CAS-No.) 68551-12-2 (EC-No.) 500-221-7	< 1	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400,M=1 Aquatic Chronic 3, H412
ETHOXYLATED C12-C14 ALCOHOLS	(CAS-No.) 68439-50-9 (EC-No.) 500-213-3	0.01 - 0.5	Eye Irrit. 2, H319 Aquatic Acute 1, H400,M=1 Aquatic Chronic 2, H411

Please see section 16 for the full text of any H statements referred to in this section

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
Sodium Laurylpolyethoxyethanol Sulphate	(CAS-No.) 68891-38-3 (EC-No.) 500-234-8	(C >= 10%) Eye Dam. 1, H318 (5% =< C < 10%) Eye Irrit. 2, H319

Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	(CAS-No.) 68585-47-7 (EC-No.) 271-557-7	(C >= 20%) Eye Dam. 1, H318 (5% =< C < 20%) Eye Irrit. 2, H319

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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
The most important symptoms and effects based on the CLP classification include:
Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Harmful if swallowed.

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

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.

5.3. Advice 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 vapours, in accordance with good industrial hygiene practice. 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 dykes 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.

6.4. Reference to other sections
Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/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. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store away from acids. Store away from oxidising agents.

7.3. Specific end use(s)
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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	CAS Nbr	Agency	Limit type	Additional comments
2-butoxyethanol	111-76-2	Ireland OELs	TWA(8 hours):98 mg/m3(20 ppm);TWA(8 hours):20 ppm(98 mg/m3);STEL(15 minutes):246 mg/m3(50 ppm);STEL(15 minutes):50 ppm(246 mg/m3)	SKIN

Ireland OELs : Ireland. OELs
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

Biological limit values
No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Full face shield.
Indirect vented goggles.

Applicable Norms/Standards
Use eye/face protection conforming to EN 166

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:

Material	**Thickness (mm)**	**Breakthrough Time**
Polymer laminate	No data available	No data available

Applicable Norms/Standards
Use gloves tested to EN 374

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 - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Full facepiece air-purifying respirator suitable for organic vapors or acid gases
Full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Applicable Norms/Standards
Use a respirator conforming to EN 136
Use a respirator conforming to EN 136: filter type A or E

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.

Colour	Orange, Red
Odor	Sulfuric
Odour threshold	*No data available.*
Melting point/freezing point	*No data available.*
Boiling point/boiling range	100 ºC
Flammability	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Flash point	Flash point > 93 °C (200 °F)
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
pH	6.3 - 7
Kinematic Viscosity	47.6 mm²/sec
Water solubility	Complete
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Vapour pressure	*No data available.*
Density	1.05 g/cm3
Relative density	1.05 [*Ref Std:*WATER=1]
Relative Vapour Density	*No data available.*
Particle Characteristics	*Not applicable.*

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	*No data available.*
Evaporation rate	*No data available.*
Molecular weight	*No data available.*
Percent volatile	77.5 % weight [*Test Method:*Estimated]

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 polymerisation will not occur.

10.4 Conditions to avoid
Light.

10.5 Incompatible materials
Strong acids.
Strong oxidising 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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

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

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic Respiratory Reaction in sensitive people: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

Skin contact
Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact
Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion
Harmful if swallowed.
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

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	Inhalation-Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
Acetic acid, mercapto-, monoammonium salt	Dermal	Rat	LD50 > 1,430 mg/kg
Acetic acid, mercapto-, monoammonium salt	Ingestion	Rat	LD50 >35, <142 mg/kg
2-(2-Ethoxyethoxy)ethanol	Dermal	Rabbit	LD50 9,143 mg/kg
2-(2-Ethoxyethoxy)ethanol	Ingestion	Rat	LD50 5,400 mg/kg
Sodium Laurylpolyethoxyethanol Sulphate	Dermal	Rat	LD50 > 2,000 mg/kg
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	Rat	LD50 2,870 mg/kg
Sodium Xylenesulphonate	Dermal	Rabbit	LD50 > 2,000 mg/kg
Sodium Xylenesulphonate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.4 mg/l
Sodium Xylenesulphonate	Ingestion	Rat	LD50 7,200 mg/kg
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	Ingestion	Rat	LD50 1,830 mg/kg

Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	Dermal	similar compounds	LD50 > 2,000 mg/kg
2-butoxyethanol	Dermal	Guinea pig	LD50 > 2,000 mg/kg
2-butoxyethanol	Inhalation-Vapour (4 hours)	Guinea pig	LC50 > 2.6 mg/l
2-butoxyethanol	Ingestion	Guinea pig	LD50 1,200 mg/kg
Alcohols, C12-16, ethoxylated	Ingestion	similar compounds	LD50 >500, 1800

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Acetic acid, mercapto-, monoammonium salt	Human and animal	Minimal irritation
2-(2-Ethoxyethoxy)ethanol	Rabbit	No significant irritation
Sodium Laurylpolyethoxyethanol Sulphate	Rabbit	Irritant
Sodium Xylenesulphonate	Rabbit	Minimal irritation
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	similar compounds	Irritant
2-butoxyethanol	Rabbit	Irritant
Alcohols, C12-16, ethoxylated	similar compounds	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Acetic acid, mercapto-, monoammonium salt	Rabbit	No significant irritation
2-(2-Ethoxyethoxy)ethanol	Rabbit	Moderate irritant
Sodium Laurylpolyethoxyethanol Sulphate	Rabbit	Corrosive
Sodium Xylenesulphonate	Rabbit	Moderate irritant
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	similar compounds	Corrosive
2-butoxyethanol	Rabbit	Severe irritant
Alcohols, C12-16, ethoxylated	Rabbit	Corrosive
ETHOXYLATED C12-C14 ALCOHOLS	Professional judgement	Moderate irritant

Skin Sensitisation

Name	Species	Value
Acetic acid, mercapto-, monoammonium salt	Human and animal	Sensitising
2-(2-Ethoxyethoxy)ethanol	Human	Not classified
Sodium Laurylpolyethoxyethanol Sulphate	Guinea pig	Not classified
Sodium Xylenesulphonate	Guinea pig	Not classified
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	similar compounds	Not classified
2-butoxyethanol	Guinea	Not classified

	pig	
Alcohols, C12-16, ethoxylated	Guinea pig	Not classified

Respiratory Sensitisation

Name	Species	Value
Acetic acid, mercapto-, monoammonium salt	Human	Some positive data exist, but the data are not sufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Acetic acid, mercapto-, monoammonium salt	In Vitro	Not mutagenic
2-(2-Ethoxyethoxy)ethanol	In Vitro	Not mutagenic
2-(2-Ethoxyethoxy)ethanol	In vivo	Not mutagenic
Sodium Laurylpolyethoxyethanol Sulphate	In Vitro	Not mutagenic
Sodium Laurylpolyethoxyethanol Sulphate	In vivo	Not mutagenic
Sodium Xylenesulphonate	In Vitro	Not mutagenic
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	In Vitro	Not mutagenic
2-butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Alcohols, C12-16, ethoxylated	In Vitro	Not mutagenic
Alcohols, C12-16, ethoxylated	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Sodium Xylenesulphonate	Dermal	Multiple animal species	Not carcinogenic
2-butoxyethanol	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2-(2-Ethoxyethoxy)ethanol	Dermal	Not classified for development	Rat	NOAEL 5,500 mg/kg/day	during organogenesis
2-(2-Ethoxyethoxy)ethanol	Ingestion	Not classified for development	Mouse	NOAEL 5,500 mg/kg/day	during organogenesis
2-(2-Ethoxyethoxy)ethanol	Inhalation	Not classified for development	Rat	NOAEL 0.6 mg/l	during organogenesis
2-(2-Ethoxyethoxy)ethanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,200 mg/kg/day	2 generation
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	90 days
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	90 days
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	2 generation
Sodium Xylenesulphonate	Ingestion	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during gestation
2-butoxyethanol	Dermal	Not classified for development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-butoxyethanol	Ingestion	Not classified for development	Rat	NOAEL 100	during

				mg/kg/day	organogenesis
2-butoxyethanol	Inhalation	Not classified for development	Multiple animal species	NOAEL 0.48 mg/l	during organogenesis
Alcohols, C12-16, ethoxylated	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Alcohols, C12-16, ethoxylated	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
Alcohols, C12-16, ethoxylated	Ingestion	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-(2-Ethoxyethoxy)ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Sodium Laurylpolyethoxyethanol Sulphate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sodium Xylenesulphonate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	Inhalation	respiratory irritation	May cause respiratory irritation	similar compounds	NOAEL Not available	
2-butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 902 mg/kg	6 hours
2-butoxyethanol	Dermal	liver	Not classified	Rabbit	LOAEL 72 mg/kg	not available
2-butoxyethanol	Dermal	kidney and/or bladder	Not classified	Rabbit	LOAEL 451 mg/kg	6 hours
2-butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	
2-butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
2-butoxyethanol	Inhalation	blood	Not classified	Multiple animal species	NOAEL Not available	
2-butoxyethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2-butoxyethanol	Ingestion	blood	Not classified	Multiple animal species	NOAEL Not available	
2-butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Human	NOAEL Not available	poisoning and/or abuse
Alcohols, C12-16, ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available.	
ETHOXYLATED C12-C14 ALCOHOLS	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available.	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-(2-Ethoxyethoxy)ethanol	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 1,000	12 weeks

					mg/kg/day	
2-(2-Ethoxyethoxy)ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Pig	NOAEL 167 mg/kg/day	90 days
2-(2-Ethoxyethoxy)ethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 2,700 mg/kg/day	90 days
2-(2-Ethoxyethoxy)ethanol	Ingestion	endocrine system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
2-(2-Ethoxyethoxy)ethanol	Ingestion	heart | hematopoietic system | nervous system	Not classified	Mouse	NOAEL 8,100 mg/kg/day	90 days
Sodium Laurylpolyethoxyethanol Sulphate	Dermal	skin | heart | endocrine system | gastrointestinal tract | hematopoietic system | liver | immune system | nervous system | eyes | kidney and/or bladder | respiratory system | vascular system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	blood | eyes	Not classified	Rat	NOAEL 225 mg/kg/day	90 days
Sodium Xylenesulphonate	Dermal	liver | heart | skin | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | hematopoietic system | immune system | nervous system | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 763 mg/kg/day	90 days
2-butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	not available
2-butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 150 mg/kg/day	90 days
2-butoxyethanol	Inhalation	liver	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
2-butoxyethanol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.15 mg/l	14 weeks
2-butoxyethanol	Inhalation	blood	Not classified	Rat	LOAEL 0.15 mg/l	6 months
2-butoxyethanol	Inhalation	endocrine system	Not classified	Dog	LOAEL 1.9 mg/l	8 days
2-butoxyethanol	Ingestion	blood	Not classified	Rat	LOAEL 69 mg/kg/day	13 weeks
2-butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	not available

Aspiration Hazard
For the component/components, either no data is currently available or the data is 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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
Acetic acid, mercapto-, monoammonium salt	5421-46-5	Activated sludge	Estimated	3 hours	NOEC	32 mg/l
Acetic acid, mercapto-, monoammonium salt	5421-46-5	Green algae	Estimated	72 hours	EC50	27 mg/l
Acetic acid, mercapto-, monoammonium salt	5421-46-5	Rainbow trout	Estimated	96 hours	LC50	>100 mg/l
Acetic acid, mercapto-, monoammonium salt	5421-46-5	Water flea	Estimated	48 hours	EC50	38 mg/l
Acetic acid, mercapto-, monoammonium salt	5421-46-5	Green algae	Estimated	72 hours	NOEC	15.2 mg/l
2-(2-Ethoxyethoxy)ethanol	111-90-0	Channel Catfish	Experimental	96 hours	LC50	6,010 mg/l
2-(2-Ethoxyethoxy)ethanol	111-90-0	Green algae	Experimental	72 hours	ErC50	14,861 mg/l
2-(2-Ethoxyethoxy)ethanol	111-90-0	Tidewater Silverside	Experimental	96 hours	LC50	>10,000 mg/l
2-(2-Ethoxyethoxy)ethanol	111-90-0	Water flea	Experimental	48 hours	LC50	1,982 mg/l
2-(2-Ethoxyethoxy)ethanol	111-90-0	Green algae	Analogous Compound	96 hours	NOEC	100 mg/l
2-(2-Ethoxyethoxy)ethanol	111-90-0	Bacteria	Experimental	16 hours	EC10	4,000 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Bacteria	Experimental	16 hours	ErC50	>10,000 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Green algae	Experimental	72 hours	ErC50	27.7 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Water flea	Experimental	48 hours	EC50	7.2 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Zebra Fish	Experimental	96 hours	LC50	7.1 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Water flea	Analogous Compound	21 days	NOEC	0.27 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Green algae	Experimental	72 hours	NOEC	0.95 mg/l
Sodium Xylenesulphonate	1300-72-7	Fathead minnow	Experimental	96 hours	LC50	>400 mg/l
Sodium Xylenesulphonate	1300-72-7	Green algae	Experimental	96 hours	EC50	230 mg/l
Sodium Xylenesulphonate	1300-72-7	Water flea	Experimental	48 hours	EC50	>400 mg/l
Sodium Xylenesulphonate	1300-72-7	Green algae	Experimental	96 hours	NOEC	31 mg/l

Sodium Xylenesulphonate	1300-72-7	Activated sludge	Analogous Compound	3 hours	EC10	>=1,000 mg/l
2-butoxyethanol	111-76-2	Activated sludge	Experimental	16 hours	IC50	>1,000 mg/l
2-butoxyethanol	111-76-2	Eastern oyster	Experimental	96 hours	LC50	89.4 mg/l
2-butoxyethanol	111-76-2	Green algae	Experimental	72 hours	ErC50	1,840 mg/l
2-butoxyethanol	111-76-2	Rainbow trout	Experimental	96 hours	LC50	1,474 mg/l
2-butoxyethanol	111-76-2	Water flea	Experimental	48 hours	EC50	1,550 mg/l
2-butoxyethanol	111-76-2	Green algae	Experimental	72 hours	ErC10	679 mg/l
2-butoxyethanol	111-76-2	Water flea	Experimental	21 days	NOEC	100 mg/l
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	68585-47-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Alcohols, C12-16, ethoxylated	68551-12-2	Green algae	Analogous Compound	72 hours	ErC50	0.64 mg/l
Alcohols, C12-16, ethoxylated	68551-12-2	Water flea	Analogous Compound	48 hours	EC50	0.24 mg/l
Alcohols, C12-16, ethoxylated	68551-12-2	Zebra Fish	Experimental	96 hours	LC50	2.2 mg/l
Alcohols, C12-16, ethoxylated	68551-12-2	Green algae	Analogous Compound	72 hours	NOEC	0.25 mg/l
Alcohols, C12-16, ethoxylated	68551-12-2	Activated sludge	Experimental	N/A	EC50	846 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Water flea	Analogous Compound	48 hours	EC50	0.63 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Common Carp	Experimental	96 hours	LC50	0.8 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Green algae	Experimental	72 hours	ErC50	0.5 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Green algae	Experimental	72 hours	NOEC	0.088 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Activated sludge	Experimental	N/A	EC50	1,000 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Wheat	Experimental	19 days	EC50	>100 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Acetic acid, mercapto-, monoammonium salt	5421-46-5	Estimated Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
2-(2-Ethoxyethoxy)ethanol	111-90-0	Experimental Biodegradation	16 days	CO2 evolution	100 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
2-(2-Ethoxyethoxy)ethanol	111-90-0	Experimental Aquatic Inherent Biodegrad.	5.5 days	Percent degraded	>90 %degraded	OECD 302B Zahn-Wellens/EVPA
2-(2-Ethoxyethoxy)ethanol	111-90-0	Experimental Photolysis		Photolytic half-life (in air)	6.7 hours (t 1/2)	
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 %CO2 evolution/THC O2 evolution	EC C.4.C. CO2 Evolution Test
Sodium Xylenesulphonate	1300-72-7	Experimental Biodegradation	28 days	CO2 evolution	84 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
2-butoxyethanol	111-76-2	Experimental Biodegradation	28 days	CO2 evolution	90.4 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
2-butoxyethanol	111-76-2	Experimental	28 days	Dissolv. Organic	100 %removal	OECD 302B Zahn-

		Biodegradation		Carbon Deplet	of DOC	Wellens/EVPA
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	68585-47-7	Experimental Biodegradation	30 days	BOD	>60 %BOD/ThOD	OECD 301D - Closed bottle test
Alcohols, C12-16, ethoxylated	68551-12-2	Experimental Biodegradation	28 days	CO2 evolution	66 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Analogous Compound Biodegradation	28 days	BOD	85 %BOD/ThOD	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Acetic acid, mercapto-, monoammonium salt	5421-46-5	Estimated Bioconcentration		Log Kow	-2.99	
2-(2-Ethoxyethoxy)ethanol	111-90-0	Experimental Bioconcentration		Log Kow	-0.54	
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Experimental Bioconcentration		Log Kow	0.3	OECD 123 log Kow slow stir
Sodium Xylenesulphonate	1300-72-7	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	=<2.3	OECD305-Bioconcentration
Sodium Xylenesulphonate	1300-72-7	Experimental Bioconcentration		Log Kow	-3.12	EC A.8 Partition Coefficient
2-butoxyethanol	111-76-2	Experimental Bioconcentration		Log Kow	0.81	
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	68585-47-7	Experimental BCF - Fish		Bioaccumulation factor	≤73	
Alcohols, C12-16, ethoxylated	68551-12-2	Analogous Compound BCF - Fish	72 hours	Bioaccumulation factor	387.5	
Alcohols, C12-16, ethoxylated	68551-12-2	Modeled Bioconcentration		Log Kow	5.1	Episuite™
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Analogous Compound BCF - Fish	72 hours	Bioaccumulation factor	310	
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Modeled Bioconcentration		Log Kow	4.9	Episuite™

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
2-(2-Ethoxyethoxy)ethanol	111-90-0	Modeled Mobility in Soil	Koc	1 l/kg	Episuite™
Sodium Xylenesulphonate	1300-72-7	Modeled Mobility in Soil	Koc	1 l/kg	ACD/Labs ChemSketch™
2-butoxyethanol	111-76-2	Estimated Mobility in Soil	Koc	67 l/kg	
Sulphuric acid, mono-C10-16-alkyl esters, sodium salts	68585-47-7	Estimated Mobility in Soil	Koc	1 l/kg	ACD/Labs ChemSketch™
Alcohols, C12-16, ethoxylated	68551-12-2	Modeled Mobility in Soil	Koc	2,000,000,000 l/kg	Episuite™
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Modeled Mobility in Soil	Koc	150-760 l/kg	Episuite™

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. Other adverse effects
No information available.

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

EU waste code (product as sold)
070604* Other organic solvents, washing liquids and mother liquors

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.

14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient	CAS Nbr	Classification	Regulation
2-butoxyethanol	111-76-2	Gr. 3: Not classifiable	International Agency for Research on Cancer

Global inventory status

Contact manufacturer 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 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 new substance notification requirements of CEPA. 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.

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Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No

1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:
Section 3: Composition/ Information of ingredients table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was modified.
Section 12:Bioccumulative potential information information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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