



Safety Data Sheet

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Document group:	18-8906-2	Version number:	16.01
Revision date:	05/01/2021	Supersedes date:	08/01/2020

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

3M™ Scotch-Weld™ Structural Adhesive Primer EW-5000 AS

Product Identification Numbers

87-2500-0100-2 87-2500-0102-8

7000058923 7000058924

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

Identified uses

Structural Adhesive Primer

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
E Mail: tox.uk@mmm.com
Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

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:

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Sensitization, Category 1A - Skin Sens. 1A; H317
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

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) |GHS09 (Environment) |

Pictograms



Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3		10 - 20
Epoxy Resin	28064-14-4		1 - 6
Bisphenol A - epichlorhydrin - formaldehyde copolymer	28906-96-9		1 - 5
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	271-846-8	< 0.75

HAZARD STATEMENTS:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P273	Avoid release to the environment.
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.
P391	Collect spillage.

Contains 2% of components with unknown hazards to the aquatic environment.

Notes on labelling

H226 not applied based on test data.

2.3. Other hazards

None known.

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]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	50 - 70	Substance not classified as hazardous
Bisphenol A diglycidyl ether - bisphenol A copolymer	(CAS-No.) 25036-25-3	10 - 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Epoxy Resin	(CAS-No.) 28064-14-4	1 - 6	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Bisphenol A - epichlorhydrin - formaldehyde copolymer	(CAS-No.) 28906-96-9	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Aluminium dihydrogen triphosphate	(CAS-No.) 13939-25-8 (EC-No.) 237-714-9	1 - 5	Eye Irrit. 2, H319 Aquatic Acute 1, H400,M=1 Aquatic Chronic 2, H411
2-(propyloxy)ethanol	(CAS-No.) 2807-30-9 (EC-No.) 220-548-6 (REACH-No.) 01-2119883539-19	1 - 5	Acute Tox. 4, H312 Eye Irrit. 2, H319 Flam. Liq. 3, H226
Aromatic Amide Curative	(CAS-No.) 17526-94-2 (EC-No.) 241-523-6	1 - 5	Substance not classified as hazardous
propan-2-ol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (REACH-No.) 01-2119457558-25	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
acetone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (REACH-No.) 01-2119471330-49	0.5 - 1.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
trizinc bis(orthophosphate)	(CAS-No.) 7779-90-0 (EC-No.) 231-944-3	< 1	Aquatic Acute 1, H400,M=10 Aquatic Chronic 1, H410,M=10
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	(CAS-No.) 68609-97-2 (EC-No.) 271-846-8	< 0.75	Skin Irrit. 2, H315 Skin Sens. 1A, H317
zinc oxide	(CAS-No.) 1314-13-2 (EC-No.) 215-222-5	< 0.05	Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1

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

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:

Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision).

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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

<u>Substance</u>	<u>Condition</u>
Aldehydes.	During combustion.
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Hydrogen Chloride	During combustion.

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 using non-sparking tools. Place in a metal 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**

For industrial/occupational use only. Not for consumer sale or use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

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
Aluminium, soluble salts	13939-25-8	UK HSC	TWA:2 mg/m ³	
propan-2-ol	67-63-0	UK HSC	TWA:999 mg/m ³ (400 ppm);STEL:1250 mg/m ³ (500	

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acetone 67-64-1 UK HSC ppm)
TWA:1210 mg/m³(500
ppm);STEL:3620 mg/m³(1500
ppm)

UK HSC : UK Health and Safety Commission
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.

Derived no effect level (DNEL)

Ingredient	Degradation Product	Population	Human exposure pattern	DNEL
acetone		Worker	Dermal, Long-term exposure (8 hours), Systemic effects	186 mg/kg bw/d
acetone		Worker	Inhalation, Long-term exposure (8 hours), Systemic effects	1,210 mg/m ³
acetone		Worker	Inhalation, Short-term exposure, Local effects	2,420 mg/m ³
propan-2-ol		Worker	Dermal, Long-term exposure (8 hours), Systemic effects	888 mg/kg bw/d
propan-2-ol		Worker	Inhalation, Long-term exposure (8 hours), Systemic effects	500 mg/m ³

Predicted no effect concentrations (PNEC)

Ingredient	Degradation Product	Compartment	PNEC
acetone		Agricultural soil	29.5 mg/kg d.w.
acetone		Freshwater	10.6 mg/l
acetone		Freshwater sediments	30.4 mg/kg d.w.
acetone		Intermittent releases to water	21 mg/l
acetone		Marine water	1.06 mg/l
acetone		Marine water sediments	3.04 mg/kg d.w.
acetone		Sewage Treatment Plant	100 mg/l
propan-2-ol		Agricultural soil	28 mg/kg d.w.
propan-2-ol		Concentration in marine fish for secondary poisoning	160 mg/kg w.w.
propan-2-ol		Freshwater	140.9 mg/l
propan-2-ol		Freshwater sediments	552 mg/kg d.w.
propan-2-ol		Intermittent releases to water	140.9 mg/l
propan-2-ol		Marine water	140.9 mg/l
propan-2-ol		Marine water sediments	552 mg/kg d.w.
propan-2-ol		Sewage Treatment Plant	2,251 mg/l

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from UK HSC

8.2. Exposure controls

In addition, refer to the annex for more information.

8.2.1. Engineering controls

Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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. Use explosion-proof ventilation 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:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136: filter types A & P

8.2.3. Environmental exposure controls

Refer to Annex

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Yellow-Green
Odor	Slight Solvent
Odour threshold	<i>No data available.</i>
Melting point/freezing point	<i>No data available.</i>
Boiling point/boiling range	100 °C [@ 101,325 Pa]
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	1.5 % [@ 20 °C]
Flammable Limits(UEL)	12.7 % [@ 20 °C]
Flash point	42.5 °C [<i>Test Method:</i> Closed Cup]
Autoignition temperature	<i>Not applicable.</i>
Decomposition temperature	<i>No data available.</i>
pH	< 7
Kinematic Viscosity	<i>No data available.</i>
Water solubility	Complete
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Vapour pressure	1,999.8 Pa [@ 20 °C]
Density	1.04 - 1.09 g/ml [@ 20 °C]
Relative density	1.06 [@ 20 °C] [<i>Ref Std:</i> WATER=1]
Relative Vapor Density	<i>No data available.</i>

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	90 - 94 g/l
Evaporation rate	1 [<i>Ref Std:</i> WATER=1]
Sustained Combustibility	Does not sustain combustion [<i>Test Method:</i> ASTM D4206]

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Amines.
Strong acids.
Strong bases.
Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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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.

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

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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	Rat	LD50 > 1,600 mg/kg
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	Rat	LD50 > 1,000 mg/kg
Epoxy Resin	Dermal	Rabbit	LD50 > 6,000 mg/kg
Epoxy Resin	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.7 mg/l
Epoxy Resin	Ingestion	Rat	LD50 > 4,000 mg/kg
propan-2-ol	Dermal	Rabbit	LD50 12,870 mg/kg
propan-2-ol	Inhalation-Vapour (4 hours)	Rat	LC50 72.6 mg/l
propan-2-ol	Ingestion	Rat	LD50 4,710 mg/kg
2-(propyloxy)ethanol	Dermal	Rabbit	LD50 1,337 mg/kg
2-(propyloxy)ethanol	Inhalation-	Rat	LC50 > 11.1 mg/l

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	Vapour (4 hours)		
2-(propyloxy)ethanol	Ingestion	Rat	LD50 3,089 mg/kg
Aluminium dihydrogen triphosphate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3.46 mg/l
Aluminium dihydrogen triphosphate	Ingestion	Rat	LD50 > 2,000 mg/kg
Aluminium dihydrogen triphosphate	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Aromatic Amide Curative	Dermal	Rat	LD50 > 2,000 mg/kg
Aromatic Amide Curative	Ingestion	Rat	LD50 > 2,000 mg/kg
Bisphenol A - epichlorhydrin - formaldehyde copolymer	Dermal	Rat	LD50 > 2,000 mg/kg
Bisphenol A - epichlorhydrin - formaldehyde copolymer	Ingestion	Rat	LD50 > 2,000 mg/kg
acetone	Dermal	Rabbit	LD50 > 15,688 mg/kg
acetone	Inhalation-Vapour (4 hours)	Rat	LC50 76 mg/l
acetone	Ingestion	Rat	LD50 5,800 mg/kg
trizinc bis(orthophosphate)	Dermal		LD50 estimated to be > 5,000 mg/kg
trizinc bis(orthophosphate)	Ingestion	Rat	LD50 > 5,000 mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Dermal	Rabbit	LD50 > 4,000 mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Ingestion	Rat	LD50 17,100 mg/kg
zinc oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
zinc oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
zinc oxide	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Bisphenol A diglycidyl ether - bisphenol A copolymer	Rabbit	Mild irritant
Epoxy Resin	Rabbit	Minimal irritation
propan-2-ol	Multiple animal species	No significant irritation
Aluminium dihydrogen triphosphate	In vitro data	No significant irritation
Aromatic Amide Curative	Rabbit	No significant irritation
Bisphenol A - epichlorhydrin - formaldehyde copolymer	Professional judgement	Irritant
acetone	Mouse	Minimal irritation
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Rabbit	Mild irritant
zinc oxide	Human and animal	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Bisphenol A diglycidyl ether - bisphenol A copolymer	Rabbit	Moderate irritant
Epoxy Resin	Rabbit	Mild irritant
propan-2-ol	Rabbit	Severe irritant
Aluminium dihydrogen triphosphate	Rabbit	Severe irritant
Aromatic Amide Curative	Rabbit	No significant irritation
Bisphenol A - epichlorhydrin - formaldehyde copolymer	Professional judgement	Severe irritant

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acetone	Rabbit	Severe irritant
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Rabbit	Mild irritant
zinc oxide	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
Bisphenol A diglycidyl ether - bisphenol A copolymer	Human and animal	Sensitising
Epoxy Resin	Human and animal	Sensitising
propan-2-ol	Guinea pig	Not classified
Bisphenol A - epichlorhydrin - formaldehyde copolymer	Professional judgement	Sensitising
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Guinea pig	Sensitising
zinc oxide	Guinea pig	Not classified

Respiratory Sensitisation

Name	Species	Value
Bisphenol A diglycidyl ether - bisphenol A copolymer	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Bisphenol A diglycidyl ether - bisphenol A copolymer	In vivo	Not mutagenic
Bisphenol A diglycidyl ether - bisphenol A copolymer	In Vitro	Some positive data exist, but the data are not sufficient for classification
Epoxy Resin	In Vitro	Some positive data exist, but the data are not sufficient for classification
propan-2-ol	In Vitro	Not mutagenic
propan-2-ol	In vivo	Not mutagenic
Aluminium dihydrogen triphosphate	In vivo	Not mutagenic
Aluminium dihydrogen triphosphate	In Vitro	Some positive data exist, but the data are not sufficient for classification
acetone	In vivo	Not mutagenic
acetone	In Vitro	Some positive data exist, but the data are not sufficient for classification
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	In vivo	Not mutagenic
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	In Vitro	Some positive data exist, but the data are not sufficient for classification
zinc oxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
zinc oxide	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
propan-2-ol	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
acetone	Not specified.	Multiple animal species	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
propan-2-ol	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during organogenesis
propan-2-ol	Inhalation	Not classified for development	Rat	LOAEL 9 mg/l	during gestation
Aluminium dihydrogen triphosphate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
Aluminium dihydrogen triphosphate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	46 days
Aluminium dihydrogen triphosphate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
acetone	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,700 mg/kg/day	13 weeks
acetone	Inhalation	Not classified for development	Rat	NOAEL 5.2 mg/l	during organogenesis
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Dermal	Not classified for development	Rat	NOAEL 200 mg/kg/day	during organogenesis
zinc oxide	Ingestion	Not classified for reproduction and/or development	Multiple animal species	NOAEL 125 mg/kg/day	prematuring & during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
propan-2-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
propan-2-ol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
propan-2-ol	Inhalation	auditory system	Not classified	Guinea pig	NOAEL 13.4 mg/l	24 hours
propan-2-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Aluminium dihydrogen triphosphate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Bisphenol A - epichlorhydrin - formaldehyde copolymer	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL not available	
acetone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
acetone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
acetone	Inhalation	immune system	Not classified	Human	NOAEL 1.19 mg/l	6 hours

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acetone	Inhalation	liver	Not classified	Guinea pig	NOAEL Not available	
acetone	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Dermal	heart blood liver nervous system kidney and/or bladder	Not classified	Rabbit	NOAEL 4,000 mg/kg	24 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
propan-2-ol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.3 mg/l	24 months
propan-2-ol	Inhalation	nervous system	Not classified	Rat	NOAEL 12 mg/l	13 weeks
propan-2-ol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	12 weeks
Aluminium dihydrogen triphosphate	Ingestion	heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
acetone	Dermal	eyes	Not classified	Guinea pig	NOAEL Not available	3 weeks
acetone	Inhalation	hematopoietic system	Not classified	Human	NOAEL 3 mg/l	6 weeks
acetone	Inhalation	immune system	Not classified	Human	NOAEL 1.19 mg/l	6 days
acetone	Inhalation	kidney and/or bladder	Not classified	Guinea pig	NOAEL 119 mg/l	not available
acetone	Inhalation	heart liver	Not classified	Rat	NOAEL 45 mg/l	8 weeks
acetone	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 900 mg/kg/day	13 weeks
acetone	Ingestion	heart	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
acetone	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 200 mg/kg/day	13 weeks
acetone	Ingestion	liver	Not classified	Mouse	NOAEL 3,896 mg/kg/day	14 days
acetone	Ingestion	eyes	Not classified	Rat	NOAEL 3,400 mg/kg/day	13 weeks

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acetone	Ingestion	respiratory system	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
acetone	Ingestion	muscles	Not classified	Rat	NOAEL 2,500 mg/kg	13 weeks
acetone	Ingestion	skin bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Dermal	nervous system respiratory system	Not classified	Rat	NOAEL 100 mg/kg/day	14 weeks
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Dermal	blood liver eyes kidney and/or bladder	Not classified	Rat	NOAEL 100 mg/kg/day	13 weeks
zinc oxide	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	10 days
zinc oxide	Ingestion	endocrine system hematopoietic system kidney and/or bladder	Not classified	Other	NOAEL 500 mg/kg/day	6 months

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
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	Green algae	Estimated	72 hours	EC50	>11 mg/l
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	Rainbow trout	Estimated	96 hours	LC50	2 mg/l
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	Water flea	Estimated	48 hours	EC50	1.8 mg/l
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	Green algae	Estimated	72 hours	NOEC	4.2 mg/l
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	Water flea	Estimated	21 days	NOEC	0.3 mg/l
Epoxy Resin	28064-14-4	Golden Orfe	Experimental	96 hours	LC50	5.7 mg/l
Epoxy Resin	28064-14-4	Water flea	Experimental	48 hours	EC50	3.5 mg/l

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Aromatic Amide Curative	17526-94-2	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Aromatic Amide Curative	17526-94-2	Common Carp	Experimental	96 hours	LC50	>100 mg/l
Aromatic Amide Curative	17526-94-2	Green Algae	Experimental	72 hours	EC50	>100 mg/l
Aromatic Amide Curative	17526-94-2	Water flea	Experimental	48 hours	EC50	>100 mg/l
Aromatic Amide Curative	17526-94-2	Green Algae	Experimental	72 hours	NOEC	100 mg/l
Bisphenol A - epichlorhydrin - formaldehyde copolymer	28906-96-9		Data not available or insufficient for classification			N/A
2-(propyloxy)ethanol	2807-30-9	Eastern oyster	Estimated	96 hours	LC50	89.4 mg/l
2-(propyloxy)ethanol	2807-30-9	Activated sludge	Experimental	16 hours	IC50	>1,000 mg/l
2-(propyloxy)ethanol	2807-30-9	Fathead minnow	Experimental	96 hours	LC50	>5,000 mg/l
2-(propyloxy)ethanol	2807-30-9	Green Algae	Experimental	72 hours	EC50	>100 mg/l
2-(propyloxy)ethanol	2807-30-9	Water flea	Experimental	48 hours	EC50	>5,000 mg/l
2-(propyloxy)ethanol	2807-30-9	Green Algae	Experimental	72 hours	NOEC	100 mg/l
propan-2-ol	67-63-0	Bacteria	Experimental	16 hours	Lowest Obs Effect Conc	1,050 mg/l
propan-2-ol	67-63-0	Crustacea	Experimental	24 hours	LC50	>10,000 mg/l
propan-2-ol	67-63-0	Green Algae	Experimental	72 hours	EC50	>1,000 mg/l
propan-2-ol	67-63-0	Medaka	Experimental	96 hours	LC50	>100 mg/l
propan-2-ol	67-63-0	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
propan-2-ol	67-63-0	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
propan-2-ol	67-63-0	Water flea	Experimental	21 days	NOEC	100 mg/l
Aluminium dihydrogen triphosphate	13939-25-8	Green Algae	Experimental	72 hours	EC50	0.76 mg/l
Aluminium dihydrogen triphosphate	13939-25-8	Green Algae	Experimental	72 hours	NOEC	0.31 mg/l
acetone	67-64-1	Algae other	Experimental	96 hours	EC50	11,493 mg/l
acetone	67-64-1	Bacteria	Experimental	16 hours	NOEC	1,700 mg/l
acetone	67-64-1	Crustacea other	Experimental	24 hours	LC50	2,100 mg/l
acetone	67-64-1	Rainbow trout	Experimental	96 hours	LC50	5,540 mg/l
acetone	67-64-1	Water flea	Experimental	21 days	NOEC	1,000 mg/l
trizinc bis(orthophosphate)	7779-90-0	Activated sludge	Estimated	3 hours	EC50	10 mg/l
trizinc bis(orthophosphate)	7779-90-0	Crustacea other	Estimated	48 hours	EC50	0.08 mg/l
trizinc bis(orthophosphate)	7779-90-0	Green Algae	Estimated	72 hours	EC50	0.083 mg/l
trizinc bis(orthophosphate)	7779-90-0	Rainbow trout	Estimated	96 hours	LC50	0.33 mg/l
trizinc bis(orthophosphate)	7779-90-0	Water flea	Estimated	48 hours	EC50	0.12 mg/l
trizinc bis(orthophosphate)	7779-90-0	Diatom	Estimated	72 hours	EC50	0.04 mg/l

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trizinc bis(orthophosphate)	7779-90-0	Green Algae	Estimated	72 hours	NOEC	0.01 mg/l
trizinc bis(orthophosphate)	7779-90-0	Water flea	Estimated	7 days	NOEC	0.026 mg/l
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	Green Algae	Experimental	72 hours	IC50	843.75 mg/l
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	Rainbow trout	Experimental	96 hours	LC50	>5,000 mg/l
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	Water flea	Experimental	48 hours	EC50	7.2 mg/l
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	Green Algae	Experimental	72 hours	NOEC	500 mg/l
zinc oxide	1314-13-2	Activated sludge	Estimated	3 hours	EC50	6.5 mg/l
zinc oxide	1314-13-2	Green Algae	Estimated	72 hours	EC50	0.052 mg/l
zinc oxide	1314-13-2	Rainbow trout	Estimated	96 hours	LC50	0.21 mg/l
zinc oxide	1314-13-2	Water flea	Estimated	48 hours	EC50	0.07 mg/l
zinc oxide	1314-13-2	Green Algae	Estimated	72 hours	NOEC	0.006 mg/l
zinc oxide	1314-13-2	Water flea	Estimated	7 days	NOEC	0.02 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	Estimated Hydrolysis		Hydrolytic half-life	117 hours (t 1/2)	Non-standard method
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	Estimated Biodegradation	28 days	BOD	5 % BOD/ThBOD	OECD 301F - Manometric respirometry
Epoxy Resin	28064-14-4	Laboratory Biodegradation	28 days	CO2 evolution	10-16 %CO2 evolution/THC O2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
Aromatic Amide Curative	17526-94-2	Estimated Biodegradation	28 days	BOD	3 % BOD/ThBOD	OECD 301C - MITI test (I)
Bisphenol A - epichlorhydrin - formaldehyde copolymer	28906-96-9	Data not availbl-insufficient			N/A	
2-(propyloxy)ethanol	2807-30-9	Experimental Biodegradation	20 days	BOD	100 % BOD/ThBOD	Non-standard method
propan-2-ol	67-63-0	Experimental Biodegradation	14 days	BOD	86 % BOD/ThBOD	OECD 301C - MITI test (I)
Aluminium dihydrogen triphosphate	13939-25-8	Data not availbl-insufficient			N/A	
acetone	67-64-1	Experimental Photolysis		Photolytic half-life (in air)	147 days (t 1/2)	Non-standard method
acetone	67-64-1	Experimental Biodegradation	28 days	BOD	78 % weight	OECD 301D - Closed bottle test
trizinc bis(orthophosphate)	7779-90-0	Data not availbl-insufficient			N/A	
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	Experimental Biodegradation	28 days	BOD	34.7 % weight	OECD 301D - Closed bottle test
zinc oxide	1314-13-2	Data not availbl-insufficient			N/A	

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Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	Estimated Bioconcentration		Log Kow	3.242	Non-standard method
Epoxy Resin	28064-14-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aromatic Amide Curative	17526-94-2	Estimated Bioconcentration		Bioaccumulation factor	4.3	Estimated: Bioconcentration factor
Bisphenol A - epichlorhydrin - formaldehyde copolymer	28906-96-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-(propyloxy)ethanol	2807-30-9	Experimental Bioconcentration		Log Kow	0.673	Non-standard method
propan-2-ol	67-63-0	Experimental Bioconcentration		Log Kow	0.05	Non-standard method
Aluminium dihydrogen triphosphate	13939-25-8	Experimental BCF-Carp	28 days	Bioaccumulation factor	<43	Non-standard method
acetone	67-64-1	Experimental Bioconcentration		Log Kow	-0.24	Non-standard method
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	Experimental Bioconcentration		Log Kow	3.77	Non-standard method
zinc oxide	1314-13-2	Experimental BCF-Carp	56 days	Bioaccumulation factor	≤217	OECD 305E - Bioaccumulation flow-through fish test

12.4. Mobility in soil

No test data available.

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

Material	CAS Nbr	Ozone Depletion Potential	Global Warming Potential
acetone	67-64-1	0	

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

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

Incinerate uncured product in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are

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complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances
 20 01 27* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

87-2500-0100-2, 87-2500-0102-8

ADR/RID: UN3082, NOT RESTRICTED AS PER SPECIAL PROVISION 375, ENVIRONMENTALLY HAZARDOUS SUBSTANCE EXEMPTION, (BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER), III, --.

IMDG-CODE: UN3082, NOT RESTRICTED AS PER IMDG CODE 2.10.2.7, MARINE POLLUTANT EXCEPTION, (BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER), III, IMDG-Code segregation code: NONE, EMS: --.

ICAO/IATA: UN3082, NOT RESTRICTED AS PER SPECIAL PROVISION A197, ENVIRONMENTALLY HAZARDOUS SUBSTANCE EXEMPTION, (BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER), III.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.; BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.; BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.; BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	Not Environmentally Hazardous	Not applicable	Not a Marine Pollutant
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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	No data available.	No Data Available	No Data Available
Control Temperature	No data available.	No Data Available	No Data Available

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Emergency Temperature	No data available.	No Data Available	No Data Available
ADR Tunnel Code	(-)	Not Applicable	Not Applicable
ADR Classification Code	M6	Not Applicable	Not Applicable
ADR Transport Category	4	Not Applicable	Not Applicable
ADR Multiplier	0	0	0
IMDG Segregation Code	Not applicable.	Not Applicable	NONE
Transport not Permitted	Not applicable.	Not Applicable	Not Applicable

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****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**

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Revision information:

EU Section 09: pH information information was added.
CLP: Ingredient table information was modified.
Label: CLP Classification information was modified.
Label: CLP Percent Unknown information was deleted.
Label: CLP Precautionary - Disposal information was deleted.
Label: CLP Precautionary - Prevention information was modified.
Label: CLP Precautionary - Response information was modified.
Section 03: Composition table % Column heading information was added.
Section 3: Composition/ Information of ingredients table information was modified.
Section 03: Substance not applicable information was added.
Section 04: First Aid - Symptoms and Effects (CLP) information was added.
Section 04: Information on toxicological effects information was modified.
Section 6: Accidental release clean-up information information was modified.
Section 8: Occupational exposure limit table information was modified.
Section 9: Density information information was modified.
Section 9: Evaporation Rate information information was deleted.
Section 9: Explosive properties information information was deleted.
Section 09: Kinematic Viscosity information information was added.
Section 9: Melting point information information was modified.
Section 9: Oxidising properties information information was deleted.
Section 9: pH information information was deleted.
Section 9: Property description for optional properties information was modified.
Section 9: Vapour density value information was added.
Section 9: Vapour density value information was deleted.
Section 9: Viscosity information information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Classification disclaimer information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: No endocrine disruptor information available warning information was added.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Respiratory Sensitization Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: 12.6. Endocrine Disrupting Properties information was added.
Section 12: 12.7. Other adverse effects information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Contact manufacturer for more detail. information was deleted.
Section 12: No Data text for mobility in soil information was added.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: Persistence and Degradability information information was modified.
Section 12: Biocumulative potential information information was modified.
Section 14 Classification Code – Main Heading information was added.
Section 14 Classification Code – Regulation Data information was added.
Section 14 Control Temperature – Main Heading information was added.
Section 14 Control Temperature – Regulation Data information was added.
Section 14 Disclaimer Information information was added.
Section 14 Emergency Temperature – Main Heading information was added.
Section 14 Emergency Temperature – Regulation Data information was added.
Section 14 Hazard Class + Sub Risk – Main Heading information was added.
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.
Section 14 Hazardous/Not Hazardous for Transportation information was added.

Section 14 Multiplier – Main Heading information was added.
 Section 14 Multiplier – Regulation Data information was added.
 Section 14 Other Dangerous Goods – Main Heading information was added.
 Section 14 Other Dangerous Goods – Regulation Data information was added.
 Section 14 Packing Group – Main Heading information was added.
 Section 14 Packing Group – Regulation Data information was added.
 Section 14 Proper Shipping Name information was added.
 Section 14 Regulations – Main Headings information was added.
 Section 14 Segregation – Regulation Data information was added.
 Section 14 Segregation Code – Main Heading information was added.
 Section 14 Special Precautions – Main Heading information was added.
 Section 14 Special Precautions – Regulation Data information was added.
 Section 14 Transport Category – Main Heading information was added.
 Section 14 Transport Category – Regulation Data information was added.
 Section 14 Transport in bulk – Regulation Data information was added.
 Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.
 Section 14 Transport Not Permitted – Main Heading information was added.
 Section 14 Transport Not Permitted – Regulation Data information was added.
 Section 14 Tunnel Code – Main Heading information was added.
 Section 14 Tunnel Code – Regulation Data information was added.
 Section 14 UN Number Column data information was added.
 Section 14 UN Number information was added.
 Section 15: Authorization status under REACH: SVHC Authorization ingredient information information was deleted.
 Section 15: Carcinogenicity information information was deleted.
 Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

Annex

1. Title	
Substance identification	acetone; EC No. 200-662-2; CAS Nbr 67-64-1;
Exposure Scenario Name	Formulation
Lifecycle Stage	Use at industrial sites
Contributing activities	PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing) ERC 02 -Formulation into mixture
Processes, tasks and activities covered	Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs. Transfers with dedicated controls, including loading, filling, dumping, bagging. Transfers without dedicated controls, including loading, filling, dumping, bagging.
2. Operational conditions and risk management measures	
Operating Conditions	Physical state: Liquid. General operating conditions: Duration of use: 8 hours/day; Emission days per year: <= 360 days per year;
Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health:

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	Goggles - Chemical resistant; Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour); Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

1. Title	
Substance identification	propan-2-ol; EC No. 200-661-7; CAS Nbr 67-63-0;
Exposure Scenario Name	Formulation
Lifecycle Stage	Use at industrial sites
Contributing activities	PROC 02 -Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing) ERC 02 -Formulation into mixture
Processes, tasks and activities covered	Closed sampling. Transfer of substance/mixture with dedicated engineering controls. Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs. Transfers without dedicated controls, including loading, filling, dumping, bagging.
2. Operational conditions and risk management measures	
Operating Conditions	Physical state: Liquid. General operating conditions: Duration of use: 8 hours/day;
Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: None needed; Environmental: None needed;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

1. Title	
Substance identification	acetone; EC No. 200-662-2; CAS Nbr 67-64-1;
Exposure Scenario Name	Industrial Use of Adhesives and Sealants

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Lifecycle Stage	Use at industrial sites
Contributing activities	PROC 07 -Industrial spraying ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
Processes, tasks and activities covered	Spraying of substances/mixtures.
2. Operational conditions and risk management measures	
Operating Conditions	Physical state: Liquid. General operating conditions: Duration of use: 8 hours/day; Emission days per year: <= 360 days per year;
Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Goggles - Chemical resistant; Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour); Wear chemically resistant gloves (tested to EN374) in combination with ‘basic’ employee training. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed; ; The following task-specific risk management measures apply in addition to those listed above: Task: PROC07; Human Health; Local exhaust ventilation;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

1. Title	
Substance identification	propan-2-ol; EC No. 200-661-7; CAS Nbr 67-63-0;
Exposure Scenario Name	Industrial Use of Adhesives and Sealants
Lifecycle Stage	Use at industrial sites
Contributing activities	PROC 07 -Industrial spraying PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 10 -Roller application or brushing PROC 13 -Treatment of articles by dipping and pouring ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
Processes, tasks and activities covered	Application of product with a roller or brush. Spraying of substances/mixtures. Transfers with dedicated controls, including loading, filling, dumping, bagging.
2. Operational conditions and risk management measures	
Operating Conditions	Physical state: Liquid. General operating conditions: Duration of use: 8 hours/day; Task: Indoor spraying; Indoors with enhanced general ventilation; Indoors with good general ventilation;

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Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: None needed; Environmental: None needed; ; The following task-specific risk management measures apply in addition to those listed above: Task: PROC07; Human Health; Laminar Flow Booth;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

1. Title	
Substance identification	acetone; EC No. 200-662-2; CAS Nbr 67-64-1;
Exposure Scenario Name	Industrial Use of Coatings
Lifecycle Stage	Use at industrial sites
Contributing activities	PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 10 -Roller application or brushing ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
Processes, tasks and activities covered	Application of product with a roller or brush. Transfers with dedicated controls, including loading, filling, dumping, bagging. Transfers without dedicated controls, including loading, filling, dumping, bagging.
2. Operational conditions and risk management measures	
Operating Conditions	Physical state: Liquid. General operating conditions: Duration of use: 8 hours/day; Emission days per year: <= 360 days per year;
Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Goggles - Chemical resistant; Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour); Wear chemically resistant gloves (tested to EN374) in combination with ‘basic’ employee training. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

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1. Title	
Substance identification	propan-2-ol; EC No. 200-661-7; CAS Nbr 67-63-0;
Exposure Scenario Name	Industrial Use of Coatings
Lifecycle Stage	Use at industrial sites
Contributing activities	PROC 07 -Industrial spraying PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 10 -Roller application or brushing ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
Processes, tasks and activities covered	Application of product with a roller or brush. Spraying of substances/mixtures. Transfers with dedicated controls, including loading, filling, dumping, bagging. Transfers without dedicated controls, including loading, filling, dumping, bagging.
2. Operational conditions and risk management measures	
Operating Conditions	Physical state: Liquid. General operating conditions: Duration of use: 8 hours/day; Task: Indoor spraying; Indoors with enhanced general ventilation; Indoors with good general ventilation;
Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: None needed; Environmental: None needed; ; The following task-specific risk management measures apply in addition to those listed above: Task: PROC07; Human Health; Laminar Flow Booth;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

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