

This safety data sheet complies with the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

Bostik Born2Bond MP515 Part A Supercedes Date: 09-Feb-2023 Revision date 13-Jul-2023 Revision Number 1.12

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

1.1. Product identifier

Product Name Bostik Born2Bond MP515 Part A

Pure substance/mixture Mixture

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

Recommended use This product is a cyanoacrylate-based adhesive

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited Common Rd ST16 3EH Stafford UK

Tel: +44 (1785) 27 26 25 Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)

NHS: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	

2.2. Label elements

Contains ethyl-2-cyanoacrylate



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Signal word

Warning

Hazard statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

EU Specific Hazard Statements

EUH202 - Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing fumes

P280 - Wear protective gloves and eye/face protection

P264 - Wash face, hands and any exposed skin thoroughly after handling

P337 + P313 - If eye irritation persists: Get medical advice/attention

P312 - Call a POISON CENTER or doctor if you feel unwell

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit.

2.3. Other hazards

Polymerises with evolution of heat. Bonds skin and eyes in seconds. Harmful to aquatic life.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No (EU Index No)	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
ethyl-2-cyanoacrylate	(607-236-00- 9) 230-391-5	7085-85-0	80 - 100	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	STOT SE 3 :: C>=10%	01-2119527766- 29-XXXX
Hydroquinone	(604-005-00- 4) 204-617-8	123-31-9	0.01 - <0.1	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	01-2119524016- 51-XXXX

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Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. If irritation persists or eye and/or

skin remains bonded: Get medical advice/attention.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

Eye contact If eyelids are bonded closed or if skin to skin or skin to clothing bonding has occurred,

release bonding by covering affected area with a pad wetted with warm water. Do not force eyes or any bonded skin apart. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists or eye and/or skin remains bonded: Get medical advice/attention. Do not rub

affected area. Get medical attention if irritation develops and persists.

Skin contact Polymerises with evolution of heat. If eyelids are bonded closed or if skin to skin or skin

to clothing bonding has occurred, release bonding by covering affected area with a pad wetted with warm water. Do not force eyes or any bonded skin apart. If irritation persists or eye and/or skin remains bonded: Get medical advice/attention. Wash off immediately with soap and plenty of water for at least 15 minutes. Allow acetone or warm water to penetrate the bond and gently attempt to move bonded areas without pulling the skin

away from bonded area. Do not remove clothing if adhering to skin.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section

8).

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

Symptoms May cause redness and tearing of the eyes. Burning sensation.

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

Note to doctors No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the Bonds skin and eyes in seconds.

chemical

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5.3. Advice for firefighters

precautions for fire-fighters

Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas. Avoid contact with skin, eyes or clothing. See section 8 for more

information.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Do not use cloths for mopping up. Flood with water to complete polymerization and Methods for containment

scrape off floor.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This product is part of a kit. Please also refer to the SDS for the other component(s) of Advice on safe handling

> the kit. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment. Do not eat, drink or smoke when using this product. See section 8 for more information. Take off contaminated clothing and wash it before reuse. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory

equipment.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Recommended storage

temperature

For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C.

7.3. Specific end use(s)

Specific use(s)

This product is a cyanoacrylate-based adhesive.

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Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	United Kingdom
ethyl-2-cyanoacrylate	-	STEL: 0.3 ppm
7085-85-0		STEL: 1.5 mg/m ³
Hydroquinone	-	TWA: 0.5 mg/m ³
123-31-9		STEL: 1.5 mg/m ³

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNE	EL)		
Hydroquinone (123-31-9)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	3.33 mg/kg bw/d	
worker Long term Systemic health effects	Inhalation	2.1 mg/m³	

Derived No Effect Level (DN	EL)		
Hydroquinone (123-31-9)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Dermal	1.66 mg/kg bw/d	
Consumer Long term Systemic health effects	Inhalation	1.05 mg/m³	
Consumer Long term Systemic health effects	Oral	0.6 mg/kg bw/d	

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	
Hydroquinone (123-31-9)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.57 μg/l
Freshwater - intermittent	1.34 μg/l
Marine water	0.057 μg/l
Freshwater sediment	0.0049 mg/kg dry weight
Marine sediment	0.00049 mg/kg dry weight
Soil	0.00064 mg/kg dry weight
Sewage treatment plant	0.71 mg/l

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8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be

exhausted directly at the point of origin.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Recommended Use:. Nitrile rubber. Glove thickness > 0.4 mm. Latex gloves.

Polyethylene. Polypropylene. Glove thickness >= 0.15 mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374

Skin and body protection Wear suitable protective clothing.
Respiratory protection None under normal use conditions.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceLiquidColourColourlessOdourIrritating.

 Property
 Values
 Remarks
 • Method

 Melting point / freezing point
 No data available
 None known

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling198 °CNone known

range

Flammability Not applicable for liquids . None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point84°CNone knownAutoignition temperature185°CNone knownDecomposition temperatureNone known

pH No data available None known.
pH (as aqueous solution) No data available None known
Kinematic viscosity No data available None known

Dynamic viscosity No data available

Water solubility No data available. Polymerisation can occur

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative density1.090None known

Bulk Density

No data available

Density

No data available

Relative vapour density No data available None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Solid content (%) No information available

VOC content No data available 34 g/L

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics

No information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical

None.

impact

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Protect from moisture.

10.5. Incompatible materials

Incompatible materials Alcohols. Alkali. Amines. Water.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Bonds skin and eyes in

seconds. Causes serious eye irritation. (based on components). May cause redness,

itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Bonds skin and eyes in

seconds. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. May cause redness and tearing of the eyes.

Acute toxicity

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Numerical measures of toxicity

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

ATEmix (oral) >5000 mg/kg
ATEmix (dermal) >5000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-dust/mist) >5 mg/l
ATEmix (inhalation-vapour) >20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
ethyl-2-cyanoacrylate	>5000 mg/kg (Rattus) OECD	>2000 mg/Kg (Oryctolagus	<21.1 mg/L (Rattus) 1 h	
	401	cuniculus) OECD 402	-	
Hydroquinone	390 mg/kg (Rattus)	= 74800 mg/kg (Oryctolagus	-	
		cuniculus)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

Component Information Hydroquinone (123-31-9)

Method	Species	Results
OECD Test No. 476: In vitro Mammalian Cell	Mouse	Mutagenic
Gene Mutation Test		

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

The table below male and medical and the table of the control of the control and medical and male and medical and male and medical and med			
Chemical name	European Union		
Hydroguinone	Muta 2		

Carcinogenicity

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component Information Hydroquinone (123-31-9)

Method	Species	Results
OECD Test No. 453: Combined Chronic	Rat	Limited evidence of a carcinogenic
Toxicity/Carcinogenicity Studies		effect

Chemical name	European Union		
Hydroquinone	Carc. 2		

Reproductive toxicity

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

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STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure Based on available data, the classification criteria are not met.

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

Note: PC-ADH-8 Multi-component adhesives and sealants This product is part of a kit Please

also refer to the SDS for the other component(s) of the kit

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life.

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
ethyl-2-cyanoacrylate 7085-85-0	polymerizes	polymerizes	-	-		
Hydroquinone 123-31-9	EC50: =0.335mg/L (72h, Pseudokirchneri ella subcapitata)	,		EC50: =0.29mg/L (48h, Daphnia magna)		1

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Hydroquinone	0.59

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

threshold of declaration.

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Chemical name	PBT and vPvB assessment
ethyl-2-cyanoacrylate	The substance is not PBT / vPvB PBT assessment does
	not apply
Hydroquinone	The substance is not PBT / vPvB PBT assessment does
	not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous

substances

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 Not regulated
 Not regulated
 Not regulated
 Not regulated

14.5 Marine pollutant NP14.6 Special precautions for user Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN3334

14.2 UN proper shipping name Aviation regulated liquid, n.o.s(ethyl-2-cyanoacrylate)

14.3 Transport hazard class(es) 914.4 Packing group | | | |

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Description UN3334, Aviation regulated liquid, n.o.s(ethyl-2-cyanoacrylate), 9, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions A27 Limited quantity (LQ) 30 kg G ERG Code 9A

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

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

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

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H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Legend

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value
* Skin designation

SVHC Substance(s) of Very High Concern

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE Specific target organ toxicity - Repeated exposure STOT SE Specific target organ toxicity - Single exposure

EWC European Waste Catalogue

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

RID Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision date 13-Jul-2023

Indication of changes

Revision note Not applicable.

Training Advice No information available Further information No information available

This material safety data sheet complies with requirements of UK REACH Regulations (SI 2019/758 as amended)

Disclaimer

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

End of Safety Data Sheet

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This safety data sheet was created pursuant to the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

Bostik Born2Bond MP515 Part B Supercedes Date: 13-Jul-2023 Revision date 19-Dec-2023 Revision Number 1.02

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

1.1. Product identifier

Product Name Bostik Born2Bond MP515 Part B

Pure substance/mixture Mixture

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

Recommended use Hardener

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited Common Rd ST16 3EH Stafford UK

Tel: +44 (1785) 27 26 25 Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)

NHS: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains Propylidynetrimethanol, ethoxylated, esters with acrylic acid, Trimethylolpropane triacrylate, tert-butyl perbenzoate



Signal word Warning

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Hazard statements

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing vapours

P280 - Wear protective gloves and eye/face protection

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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit.

2.3. Other hazards

Toxic to aquatic life.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No (EU Index No)	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	,	REACH registration number
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	500-066-5	28961-43-5	40 - <80	Eye Irrit. 2 (H319) Skin Sens. 1B (H317) Aquatic Chronic 3 (H412)		01-2119489900- 30-XXXX
2-[4-(2-{ 4-[2-(prop-2-enoyloxy)et hoxy]phenyl} propan-2-yl)phenoxy]eth yl prop-2-enoate		64401-02-1	10 - <20	Aquatic Chronic 2 (H411)	-	01-2119969511- 34-xxxx
Trimethylolpropane triacrylate	239-701-3 (607-111-00- 9)	15625-89-5	0.1 - <0.5	Carc. 2 (H351)Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	01-2119489896- 11-xxxx
tert-butyl perbenzoate	210-382-2	614-45-9	0.1 - <0.3	Skin Irrit. 2 (H315)	-	01-2119513317- 46-XXXX

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Skin Sens. 1	
(H317)	
Acute Tox. 4	
(H332)	
Aquatic Acute 1	
(H400)	
Aquatic Chronic 3	
(H412)	
Org. Perox. C	
Org. Perox. C (H242)	

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Notes

See section 16 for more information

Chemical name	Notes
Trimethylolpropane triacrylate - 15625-89-5	D

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin

irritation or allergic reactions see a doctor.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a doctor.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section

8).

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

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

Effects of Exposure No information available.

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

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Product is or contains a sensitiser. May cause sensitisation by skin contact.

vapours.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling This product is part of a kit. Please also refer to the SDS for the other component(s) of

the kit. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using

this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

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Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)

Hardener.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)						
Propylidynetrimethanol, ethoxyla	ted, esters with acrylic acid (28961-43-5)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor			
worker Long term Systemic health effects	Inhalation	16.2 mg/m ³				
worker Long term Systemic health effects	Dermal	0.8 mg/kg bw/d				

2-[4-(2-{ 4-[2-(prop-2-enoyloxy)ethoxy]phenyl} propan-2-yl)phenoxy]ethyl prop-2-enoate (64401-02-1)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
worker Long term Systemic health effects	Inhalation	3.52 mg/m³			
worker Long term Systemic health effects	Dermal	2 mg/kg			

Trimethylolpropane triacrylate (15625-89-5)					
Туре	Exposure route	Derived No Effect Level	Safety factor		
		(DNEL)			
worker	Inhalation	3.5 mg/m ³			
Long term					
Systemic health effects					
worker	Dermal	83 mg/kg bw/d			
Long term					
Systemic health effects					

tert-butyl perbenzoate (614-45-9)					
Туре	Exposure route	Derived No Effect Level	Safety factor		
		(DNEL)			
Long term	Inhalation	4 mg/m³			
Systemic health effects					
Long term	Dermal	6.25 mg/kg bw/d			

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Systemic health effects		

Derived No Effect Level (DNEL)					
Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)					
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Consumer Long term Systemic health effects	Inhalation	4.9 mg/m³			
Consumer Long term Systemic health effects	Oral	1.4 mg/kg			
Consumer Long term Systemic health effects	Dermal	0.5 mg/m³			

2-[4-(2-{ 4-[2-(prop-2-enoyloxy)ethoxy]phenyl} propan-2-yl)phenoxy]ethyl prop-2-enoate (64401-02-1)				
Туре	Exposure route	Derived No Effect Level	Safety factor	
		(DNEL)		
Consumer	Inhalation	0.87 mg/m³		
Long term				
Systemic health effects				
Consumer	Oral	0.5 mg/m ³		
Long term				
Systemic health effects				
Consumer	Dermal	1 mg/m³		
Long term				
Systemic health effects				

Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)				
Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)				
Environmental compartment	Predicted No Effect Concentration (PNEC)			
Freshwater	0.00195 mg/l			
Marine water	0.000195 mg/l			
Freshwater - intermittent	0.0195 mg/l			
Freshwater sediment	0.0082 mg/kg dry weight			
Marine sediment	0.00082 mg/kg dry weight			
Sewage treatment plant	10 mg/l			
Soil	0.00587 mg/kg dry weight			

2-[4-(2-{ 4-[2-(prop-2-enoyloxy)ethoxy]phenyl} propan-2-yl)phenoxy]ethyl prop-2-enoate (64401-02-1)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	0.006 mg/l		
Soil	0.1208 mg/kg dry weight		
Marine sediment	0.06216 mg/kg dry weight		
Sewage treatment plant	1.43 mg/l		

Trimethylolpropane triacrylate (15625-89-5)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	0.87 μg/l		
Marine water	0.087 μg/l		
Freshwater - intermittent	8.7 μg/l		
Freshwater sediment	0.017 mg/kg dry weight		
Marine sediment	0.002 mg/kg dry weight		
Sewage treatment plant	6.25 mg/l		
Soil	0.003 mg/kg dry weight		
Food chain	10 mg/kg		

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tert-butyl perbenzoate (614-45-9)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	8.8 µg/l
Marine water	0.88 μg/l
Sewage treatment plant	0.6 mg/l
Freshwater sediment	0.24 mg/kg dry weight
Soil	0.043 mg/kg dry weight

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Skin and body protectionTight sealing safety goggles.
Suitable protective clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceLiquidColourColourlessOdourCharacteristic.

Property Values Remarks • Method

Melting point / freezing pointNo data availableNone knownInitial boiling point and boilingNo data availableNone known

range

Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available None known Autoignition temperature 349.00 °C None known Decomposition temperature PH No data available None known.

pH (as aqueous solution)

No data available

None known

No data available

None known

No data available

None known

Dynamic viscosity

No data available

No data available

Water solubilityNo data available.None knownSolubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative density1.136None known

Bulk Density

No data available

Density

No data available

DensityNo data availableRelative vapour densityNo data availableNone known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Solid content (%) No information available

VOC content 2.2 g/L

9.2.1. Information with regards to physical hazard classes Not applicable

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9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical

None.

mpac

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoidNone known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

irritation. (based on components). May cause redness, itching, and pain.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause irritation. Prolonged contact

may cause redness and irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

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Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

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

 ATEmix (oral)
 >5000 mg/kg

 ATEmix (dermal)
 >5000 mg/kg

 ATEmix (inhalation-gas)
 >20000 ppm

 ATEmix (inhalation-dust/mist)
 >5 mg/l

 ATEmix (inhalation-vapour)
 >20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylidynetrimethanol,	LD50 > 2000 mg/kg (Rattus)	LD50 > 13 g/kg (Oryctolagus	-
ethoxylated, esters with acrylic		cuniculus)	
acid			
2-[4-(2-{	LD50 >2000 mg/Kg (OECD	LD50 >2000 mg/Kg OECD 402	-
4-[2-(prop-2-enoyloxy)ethoxy]p	423)(Rattus)	(rattus)	
henyl}			
propan-2-yl)phenoxy]ethyl			
prop-2-enoate			
Trimethylolpropane triacrylate	= 5190 mg/kg (Rattus)	= 5000 mg/kg (Oryctolagus	-
		cuniculus)	
tert-butyl perbenzoate	>2000 mg/kg (Rattus) (OECD 423)	= 3817 mg/kg (Rabbit)	1.01 - 4.9 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation.

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit	Dermal			Non-irritant
Acute Dermal					
Irritation/Corrosion					

Trimethylolpropane triacrylate (15625-89-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results	ı
OECD Test No. 404:	Rabbit	Dermal	0.5 mL	4 hour	Irritant	ĺ
Acute Dermal						ı
Irritation/Corrosion						ı

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			Irritant
Acute Eye					
Irritation/Corrosion					

Respiratory or skin sensitisation May cause an allergic skin reaction.

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)

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Method	Species	Exposure route	Results
OECD Test No. 429: Skin	Mouse	Dermal	Sensitizing
Sensitisation: Local Lymph Node			-
Assay			

Trimethylolpropane triacrylate (15625-89-5)

Method	Species	Exposure route	Results
Not available	Guinea pig	Dermal	Sensitizing

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

Component Information

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5)

Method	Species	Results
OECD Test No. 474: Mammalian Erythrocyte	Mouse, in vivo	Not mutagenic
Micronucleus Test		

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

Component Information

Trimethylolpropane triacrylate (15625-89-5)

Method	Species	Results
OECD Test No. 451: Carcinogenicity Studies	in vivo	Carcinogenic

Chemical name	European Union
Trimethylolpropane triacrylate	Carc. 2

Reproductive toxicityBased on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposureBased on available data, the classification criteria are not met.

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

Note: PC-ADH-8 Multi-component adhesives and sealants This product is part of a kit Please

also refer to the SDS for the other component(s) of the kit

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Propylidynetrimethanol, ethoxylated, esters with acrylic acid 28961-43-5	,		-	EC50: 48 h 70.7 mg/l (Daphnia magna) OECD 202	1	1
2-[4-(2-{ 4-[2-(prop-2-enoyloxy)e thoxy]phenyl} propan-2-yl)phenoxy]et hyl prop-2-enoate 64401-02-1		-	-	EL50, 48 h (Daphnia magna): 6 mg/l OECD 202		
Trimethylolpropane triacrylate 15625-89-5	_	LC50 (96hr) =0.86 mg/L Fish (Danio rerio) (OECD 203)	-	EC50 (48h) =19.9mg/L Daphnia magna (EU Method C.2)		1
tert-butyl perbenzoate 614-45-9	ErC50: 0.4mg/l (Pseudokirchner iella subcapitata) OECD 201	, ,	-	EC50: 16 mg/l (Daphnia magna) OECD 202		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2.89
2-[4-(2-{ 4-[2-(prop-2-enoyloxy)ethoxy]phenyl}	3.66
propan-2-yl)phenoxy]ethyl prop-2-enoate	
tert-butyl perbenzoate	3

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

threshold of declaration.

Chemical name	PBT and vPvB assessment		
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	The substance is not PBT / vPvB		
Trimethylolpropane triacrylate	The substance is not PBT / vPvB		
tert-butyl perbenzoate	The substance is not PBT / vPvB		

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 Not regulated
 Not regulated
 Not regulated
 Not regulated

14.5 Marine pollutant NP14.6 Special precautions for user Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special precautions for user Special Provisions None

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

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This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H242 - Heating may cause a fire

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H351 - Suspected of causing cancer

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

H412 - Harmful to aquatic life with long lasting effects

Notes relating to the identification, classification and labelling of substances

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.

However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'

Legend

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value Sk* Skin designation

SVHC Substance(s) of Very High Concern

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE Specific target organ toxicity - Repeated exposure STOT SE Specific target organ toxicity - Single exposure

EWC European Waste Catalogue

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

RID Regulations concerning the International Transport of Dangerous Goods by Rail

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Key literature references and sources for data

No information available

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Indication of changes

Revision note SDS sections updated, 2.
Training Advice No information available
Further information No information available

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

Disclaimer

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

End of Safety Data Sheet

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