

BOSTIK RITO BITUMINOUS MASTIC
Supersedes Date: 15-Feb-2019Revision Date 08-Mar-2019
Revision Number 1.01**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product Identifier****Product Name** BOSTIK RITO BITUMINOUS MASTIC
Pure substance/mixture Mixture**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended use** Primers, Sealers, and Undercoaters.
Uses advised against None known**1.3. Details of the supplier of the safety data sheet****Company Name**Bostik Industries Limited
Newtown, Swords
Co. Dublin Ireland
Tel: +353 (1) 8624900
Fax: +353 (1) 8402186**E-mail address** SDS.box-EU@bostik.com**1.4. Emergency telephone number****United Kingdom** +44 (1785) 272650
Ireland +353 (1) 8624900 (Monday- Friday 9am-5pm)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

2.2. Label Elements

Contains: Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene

**Signal word**
WARNING**Hazard statements**H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects
H226 - Flammable liquid and vapour

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Precautionary statements

P102 - Keep out of reach of children

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P403 + P235 - Store in a well-ventilated place. Keep cool

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

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other Hazards

No information available

PBT and vPvB assessment

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Quartz	238-878-4	14808-60-7	15 - 25	^		Exempt
Isopropyl alcohol	200-661-7	67-63-0	5 - <10	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)		01-2119457558-25-XXXX
Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene	265-185-4	64742-82-1	1 - <5	STOT SE 3 (H336) STOT RE 1 (H372) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) (EUH066)		01-2119458049-33-XXXX
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)	919-006-8	--	1 - <5	Asp. Tox. 1 (H304) Aquatic Chronic 4 (H413) (EUH066)		01-2119455996-19-xxxx
Phosphoric acid	231-633-2	7664-38-2	0.1 - <1	Skin Corr. 1B (H314) Met. Corr. 1 (H290)	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 10%<=C<25%	01-2119485924-24-xxxx

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (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.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms No information available.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	Do not use straight streams. CAUTION: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.
Other information	Ventilate the area. 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. Prevent product from entering drains. Do not allow to enter into soil/subsoil.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Dyke far ahead of spill; use dry sand to contain the flow of material. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Eliminate all ignition sources if safe to do so.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice.
General hygiene considerations	Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations.
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7.3. Specific end use(s)

Specific Use(s)
Primers, Sealers, and Undercoaters.

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

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Other information Observe technical data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Exposure Limits

Chemical Name	European Union	Ireland	United Kingdom
Quartz 14808-60-7	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³
Isopropyl alcohol 67-63-0	-	TWA: 200 ppm STEL: 400 ppm Sk*	TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³
Kaolin 1332-58-7	-	TWA: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³
Phosphoric acid 7664-38-2	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³

Chemical Name	European Union	Ireland	United Kingdom
Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene 64742-82-1	-	-	STEL: 600 mg/m ³ WEL: 350 mg/m ³

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)

Quartz (14808-60-7)

Isopropyl alcohol (67-63-0)

Type Worker Long term Systemic health effects
 Exposure route Inhalation
 Derived No Effect Level (DNEL) 500 mg/m³

Type Worker Long term Systemic health effects
 Exposure route Dermal
 Derived No Effect Level (DNEL) 888 mg/kg bw/d

Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene (64742-82-1)

Type Worker Long term Systemic health effects
 Exposure route Inhalation
 Derived No Effect Level (DNEL) 330 mg/m³

Type Worker Short term Systemic health effects
 Exposure route Inhalation
 Derived No Effect Level (DNEL) 570 mg/m³

Type Worker Long term Systemic health effects
 Exposure route Dermal
 Derived No Effect Level (DNEL) 21 mg/kg bw/d

Derived No Effect Level (DNEL)

Isopropyl alcohol (67-63-0)

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	89 mg/m ³

Type	Consumer Long term Systemic health effects
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Exposure route	Dermal
Derived No Effect Level (DNEL)	319 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	26 mg/kg bw/d

Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene (64742-82-1)	
Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	71 mg/m ³

Type	Consumer Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	570 mg/m ³

Type	Consumer Long term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	12 mg/kg bw/d

Type	Consumer Long term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	21 mg/kg bw/d

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
Isopropyl alcohol (67-63-0)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	140.9 mg/l
Marine water	140.9 mg/l
Sewage treatment plant	2251 mg/l
Freshwater sediment	552 mg/kg dry weight
Marine sediment	552 mg/kg dry weight
Soil	28 mg/kg dry weight

8.2. Exposure controls

Engineering controls Ensure that enough fresh air is supplied to dilute and remove dusts, fumes or vapours. Between 5 and 15 air changes per hour are recommended, with a through draught.

Personal Protective Equipment

Eye/face protection Tight sealing safety goggles.

Hand protection For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Recommended Use: Polyvinyl chloride (PVC). Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Gloves must conform to standard EN 374

Skin and body protection Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber.

Respiratory protection People who suffer from skin sensitisation problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Physical State	Liquid
Appearance	Paste
Colour	Black
Odour	Characteristic
Odour Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	153 °C	
Flash Point	> 39 °C	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour Pressure	No data available	
Vapour Density	No data available	
Relative Density	No data available	
Water Solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition Temperature	200 °C	
Decomposition Temperature	No data available	
Kinematic Viscosity	> 20.6 mm ² /s	None known
Dynamic Viscosity	No data available	
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	No information available
Softening Point	No information available
Molecular Weight	No information available
VOC (volatile organic compound)	No information available
Density	No information available
Bulk Density	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 impact	None.
Sensitivity to static discharge	Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

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10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product information

Inhalation Based on available data, the classification criteria are not met.
Eye contact Based on available data, the classification criteria are not met.
Skin contact Based on available data, the classification criteria are not met.
Ingestion Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute Toxicity

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quartz 14808-60-7	>2000 mg/kg (Rat)		
Isopropyl alcohol 67-63-0	>5000 mg/Kg	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene 64742-82-1	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) --	LD50 >4150 mg/kg bw (Rat) (OECD 423 Guideline)Read across	LD50 > 2000 mg/kg (Read Across)	
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h

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

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

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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.

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

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

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

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor
Isopropyl alcohol 67-63-0	EC50 72 h > 1000 mg/L (Desmodesmus subspicatus)	LC50 96 h > 1400000 µg/L (Lepomis macrochirus)	-	EC50: =13299mg/L (48h, Daphnia magna)	-
Naphtha, petroleum, hydrosulfurized heavy <0.1% w/w Benzene 64742-82-1	-	96 Hr 4.5-23 mg/L (Pimephales promelas) OECD guideline 203	-	LC50 96 h = 2.6 mg/L (Chaetogammarus marinus) 4.5mg/L (Daphnia magna) OECD guideline 202	-
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) --	-	LL50 (96hr) >1000 mg/kg Fish (Oncorhynchus mykiss) Semi static (Read across)	-	ECo (48hr) >1000mg/L Daphnia magna (OECD 202 guideline) Read across	-
Phosphoric acid 7664-38-2	-	LC50: 3 - 3.5mg/L (96h, Gambusia affinis)	-	EC50: =4.6mg/L (12h, Daphnia magna)	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulative potential There is no data for this product.

Component Information

Chemical Name	Partition coefficient	Bioconcentration factor (BCF)
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Quartz 14808-60-7	-	0
Isopropyl alcohol 67-63-0	0.05	-

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical Name	PBT and vPvB assessment
Isopropyl alcohol 67-63-0	The substance is not PBT / vPvB PBT assessment does not apply
Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene 64742-82-1	The substance is not PBT / vPvB
Phosphoric acid 7664-38-2	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Other adverse effects

Other Adverse Effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Waste codes / waste designations according to EWC / AVV 08 01 11* waste paint and varnish 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	UN1133
14.2 Proper Shipping Name	Adhesives
14.3 Transport hazard class(es)	3
Labels	3
14.4 Packing Group	III
Description	UN1133, Adhesives, 3, III, (D/E)
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None
Classification Code	F1
Tunnel restriction code	(D/E)
Limited Quantity (LQ)	5 L
ADR Hazard Id (Kemmler Number)	30

IMDG

14.1 UN Number	UN1133
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14.2 Proper Shipping Name	Adhesives
14.3 Transport hazard class(es)	3
14.4 Packing Group	III
Description	UN1133, Adhesives, 3, III, (39°C c.c.)
14.5 Marine Pollutant	Np
14.6 Special Provisions	223, 955
Limited Quantity (LQ)	5 L
EmS-No.	F-E, S-D
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

Air transport (ICAO-TI / IATA-DGR)

14.1 UN Number	UN1133
14.2 Proper Shipping Name	Adhesives
14.3 Transport hazard class(es)	3
14.4 Packing Group	III
Description	UN1133, Adhesives, 3, III
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	A3
Limited Quantity (LQ)	10 L
ERG Code	3L

Section 15: REGULATORY INFORMATION

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

European Union

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

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

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

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (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).

EU-REACH (1907/2006) - Annex XIV - List of substances subject to Authorization

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

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

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

Not applicable

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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

H336 - May cause drowsiness or dizziness
H372 - Causes damage to organs through prolonged or repeated exposure
H304 - May be fatal if swallowed and enters airways
H411 - Toxic to aquatic life with long lasting effects
H226 - Flammable liquid and vapour
H319 - Causes serious eye irritation
H225 - Highly flammable liquid and vapour
H413 - May cause long lasting harmful effects to aquatic life
EUH066 - Repeated exposure may cause skin dryness or cracking

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals		
STOT RE	Specific target organ toxicity - Repeated exposure		
STOT SE	Specific target organ toxicity - Single exposure		
EWC:	European Waste Catalogue		

Key literature references and sources for data

Classification and labeling data calculated from data received from raw material suppliers

Prepared By Product Safety & Regulatory Affairs

Revision Date 08-Mar-2019

Indication of changes

Revision note Not applicable.

Training Advice No information available

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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.

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End of Safety Data Sheet