

SAFETY DATA SHEET

SPECIALTY ELECTRONIC MATERIALS UK

LIMITED

Safety Data Sheet according to Reg. (EU) No 2015/830

Product name: MOLYKOTE[®] P-37 Antiseize Paste

Revision Date: 10.02.2021 Version: 2.0 Date of last issue: 17.10.2018 Print Date: 11.02.2021

SPECIALTY ELECTRONIC MATERIALS UK LIMITED encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier Product name: MOLYKOTE[®] P-37 Antiseize Paste

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Lubricants and lubricant additives

1.3 Details of the supplier of the safety data sheet COMPANY IDENTIFICATION SPECIALTY ELECTRONIC MATERIALS UK LIMITED KINGS COURT, LONDON ROAD STEVENAGE England SG1 2NG UNITED KINGDOM

Customer Information Number:

800-3876-6838 SDSQuestion-EU@dupont.com

1.4 EMERGENCY TELEPHONE NUMBER 24-Hour Emergency Contact: +(44)-870-8200418 **Local Emergency Contact:** +(44)-870-8200418

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Skin irritation - Category 2 - H315 Serious eye damage - Category 1 - H318 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms



Signal word: DANGER

Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.

Precautionary statements

i i coudional y	Statements
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
+ P338 +	if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/
P310	doctor.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
	-

Contains Calcium hydroxide

2.3 Other hazards

This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Inorganic and organic compounds, Mixture 3.2 Mixtures

This product is a mixture.

CASRN / REACH EC-No. / Registration Index-No. Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
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CASRN 1305-62-0 EC-No. 215-137-3 Index-No. –	_	>= 10.0 - < 20.0 %	Calcium hydroxide	Skin Irrit 2 - H315 Eye Dam 1 - H318 STOT SE - 3 - H335
Substances with	n a workplace exposu	re limit	1	
CASRN 7782-42-5 EC-No. 231-955-3 Index-No. –	01-2119486977-12	>= 20.0 - < 30.0 %	Graphite	Not classified
CASRN 1314-23-4 EC-No. 215-227-2 Index-No. –	01-2119486976-14	>= 10.0 - < 20.0 %	Zirconium oxide	Not classified

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Skin contact: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

Eye contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be available in work area.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture Hazardous combustion products: Carbon oxides Metal oxides

Unusual Fire and Explosion Hazards: Exposure to combustion products may be a hazard to health.

5.3 Advice for firefighters

Fire Fighting Procedures: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up: Wipe up or scrape up and contain for salvage or disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections:

See sections: 7, 8, 11, 12 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling: Do not get on skin or clothing. Do not get in eyes. Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

7.2 Conditions for safe storage, including any incompatibilities: Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents. Unsuitable materials for containers: None known.

7.3 Specific end use(s): See the technical data sheet on this product for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value
Graphite	ACGIH	TWA Respirable	2 mg/m3
		particulate matter	
	Further information: pneum	oconiosis: Pneumoconiosis	
	GB EH40	TWA inhalable dust	10 mg/m3
	dust are those fractions of a undertaken in accordance w for sampling and gravimetri COSHH definition of a subs present at a concentration i inhalable dust or 4 mg.m-3 will be subject to COSHH if been assigned specific WE limit.; 45: Most industrial du behaviour, deposition and fr respiratory system and the of the particle. HSE distingu 'inhalable' and 'respiratory, material that enters the nos deposition in the respiratory penetrates to the gas excha material are given in MDHS own assigned WEL, all the	airborne dust which will be co with the methods described in ic analysis of respirable and in stance hazardous to health in in air equal to or greater than 8-hour TWA of respirable dus people are exposed above th Ls and exposure to these mu usts contain particles of a wid ate of any particular particle a body response that it elicits, of uishes two size fractions for li 46: Inhalable dust approxim are and mouth during breathing y tract. Respirable dust appro ange region of the lung. Fuller 514/3.; 47: Where dusts cont relevant limits should be com e limit is listed, a figure three	MDHS14/3 General methods nhalable dust; 44: The cludes dust of any kind when 10 mg.m-3 8-hour TWA of st. This means that any dust nese levels. Some dusts have st comply with the appropriate le range of sizes. The after entry into the human depend on the nature and size mit-setting purposes termed ates to the fraction of airborne g and is therefore available for ximates to the fraction that r definitions and explanatory ain components that have their uplied with.; 2: Where no times the long-term exposure
		•	4 mg/m3 respirable dust and inhalable
	dust are those fractions of a undertaken in accordance w for sampling and gravimetri COSHH definition of a subs present at a concentration i inhalable dust or 4 mg.m-3 will be subject to COSHH if	airborne dust which will be co with the methods described in ic analysis of respirable and in stance hazardous to health in in air equal to or greater than 8-hour TWA of respirable dus people are exposed above th	llected when sampling is MDHS14/3 General methods nhalable dust; 44: The cludes dust of any kind when 10 mg.m-3 8-hour TWA of

	limit.; 45: Most industrial dusts c behaviour, deposition and fate of respiratory system and the body of the particle. HSE distinguishes 'inhalable' and 'respirable'.; 46: I material that enters the nose and deposition in the respiratory tract penetrates to the gas exchange r material are given in MDHS14/3. own assigned WEL, all the releva specific short-term exposure limit should be used	f any particular particle a response that it elicits, d s two size fractions for lin inhalable dust approxima d mouth during breathing t. Respirable dust approx region of the lung. Fuller ; 47: Where dusts conta ant limits should be comp	fter entry into the lepend on the na nit-setting purpose ates to the fraction and is therefore kimates to the fra- definitions and e in components to polied with.; 2: W	e human ture and size ses termed on of airborne available for action that explanatory hat have their here no
Zirconium oxide	ACGIH	TWA	5 mg/m3	, Zirconium
	Further information: resp irr: Res carcinogen	piratory irritation; A4: No	ot classifiable as	a human
	ACGIH	STEL	10 mg/m3	, Zirconium
	Further information: resp irr: Res carcinogen	piratory irritation; A4: No	ot classifiable as	a human
	GB EH40	TWA	5 mg/m3	, Zirconium
	GB EH40	STEL	10 mg/m3	, Zirconium

Derived No Effect Level

Calcium hydroxide

Workers

Acute syste	emic effects	Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	4 mg/m3	n.a.	n.a.	n.a.	1 mg/m3

Consumers

Acute	e systemic e	effects	Acute local effects		Long-term systemic effects			Long-term local effects	
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	4 mg/m3	n.a.	n.a.	n.a.	n.a.	1 mg/m3

Graphite

w	orkers	
• •	UINEIS	

Acute syste	emic effects	Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1.2 mg/m3

Consumers

Acute systemic effects			Acute local effects		Long-te	rm systemi	c effects	•	erm local ects
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	813 mg/kg bw/dav	n.a.	0.3 mg/m3

Predicted No Effect Concentration

Calcium hydroxide

Compartment	PNEC
Fresh water	0.49 mg/l

Marine water	0.32 mg/l
Intermittent use/release	0.49 mg/l
Sewage treatment plant	3 mg/l
Soil	1080 mg/kg

8.2 Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Hygiene measures: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. Ensure that eye flushing systems and safety showers are located close to the working place.

Individual protection measures

Eye/face protection: Use chemical goggles.

Skin protection

Hand protection: Use gloves chemically resistant to this material.

Other protection: Use chemical protective clothing resistant to this material, when there is any possibility of skin contact.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	paste
Color	grey
Odor	none
Odor Threshold	No data available
рН	Not applicable
Melting point/range	No data available
Freezing point	No data available
Boiling point (760 mmHg)	Not applicable
Flash point	closed cup >170 °C
Evaporation Rate (Butyl Acetate	Not applicable
= 1)	
Flammability (solid, gas)	Not classified as a flammability hazard

Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor Pressure	Not applicable
Polativo Vapor Dopsity (air – 1)	No data available
Relative Vapor Density (air = 1) Relative Density (water = 1) Water solubility Partition coefficient: n- octanol/water	No data available No data available No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Dynamic Viscosity	Not applicable
Kinematic Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties 9.2 Other information Molecular weight Particle size	The substance or mixture is not classified as oxidizing. No data available No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not classified as a reactivity hazard.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required.

10.4 Conditions to avoid: None known.

- 10.5 Incompatible materials: Oxidizing agents
- **10.6 Hazardous decomposition products:** 1-Butene.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

11.1 Information on toxicological effects Acute toxicity Acute oral toxicity Product test data not available. Refer to component data.

Acute dermal toxicity

Product test data not available. Refer to component data.

Acute inhalation toxicity

Product test data not available. Refer to component data.

Skin corrosion/irritation

Product test data not available. Refer to component data.

Serious eye damage/eye irritation

Product test data not available. Refer to component data.

Sensitization

Product test data not available. Refer to component data.

Specific Target Organ Systemic Toxicity (Single Exposure) Product test data not available. Refer to component data.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Product test data not available. Refer to component data.

Carcinogenicity

Product test data not available. Refer to component data.

Teratogenicity

Product test data not available. Refer to component data.

Reproductive toxicity

Product test data not available. Refer to component data.

Mutagenicity

Product test data not available. Refer to component data.

Aspiration Hazard

Product test data not available. Refer to component data.

COMPONENTS INFLUENCING TOXICOLOGY:

Calcium hydroxide Acute oral toxicity LD50, Rat, > 2,000 mg/kg OECD Test Guideline 425

Acute dermal toxicity Based on data from similar materials LD50, Rabbit, > 2,500 mg/kg OECD Test Guideline 402

Acute inhalation toxicity

The LC50 has not been determined.

Skin corrosion/irritation

Brief contact may cause moderate skin irritation with local redness.

Serious eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Sensitization

For skin sensitization: No relevant data found.

For respiratory sensitization: No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

May cause respiratory irritation. These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Carcinogenicity

For similar material(s): Did not cause cancer in laboratory animals.

Teratogenicity

No relevant data found.

Mutagenicity

In vitro genetic toxicity studies were negative.

Graphite

Acute oral toxicity

LD50, Rat, > 2,000 mg/kg OECD Test Guideline 401 No deaths occurred at this concentration.

Acute dermal toxicity

The dermal LD50 has not been determined.

Acute inhalation toxicity

LC50, Rat, 4 Hour, dust/mist, > 2 mg/l OECD Test Guideline 403 No deaths occurred at this concentration.

Skin corrosion/irritation

Essentially nonirritating to skin.

Serious eye damage/eye irritation

May cause slight temporary eye irritation. May cause slight temporary corneal injury.

Sensitization

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization: No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.

Carcinogenicity

No relevant data found.

Teratogenicity

Did not cause birth defects or any other fetal effects in laboratory animals.

Reproductive toxicity

In animal studies, did not interfere with reproduction.

Mutagenicity

In vitro genetic toxicity studies were negative.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Zirconium oxide

Acute oral toxicity LD50, Rat, female, > 5,000 mg/kg

Acute dermal toxicity

The dermal LD50 has not been determined.

Acute inhalation toxicity

LC50, Rat, male and female, 4 Hour, dust/mist, > 4.3 mg/l The LC50 value is greater than the Maximum Attainable Concentration.

Skin corrosion/irritation

Brief contact is essentially nonirritating to skin. Prolonged contact may cause skin irritation with local redness.

Serious eye damage/eye irritation

May cause slight eye irritation. May cause slight corneal injury.

Sensitization

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization: No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity No relevant data found.

Teratogenicity No relevant data found.

Reproductive toxicity

No relevant data found.

Mutagenicity

In vitro genetic toxicity studies were negative.

Aspiration Hazard

Based on available information, aspiration hazard could not be determined.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

12.1 Toxicity

Calcium hydroxide

Acute toxicity to fish

Material is harmful to aquatic organisms (LC50/EC50/IC50 between 10 and 100 mg/L in the most sensitive species).

LC50, Gasterosteus aculeatus (threespine stickleback), 96 Hour, 457 mg/l

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 48 Hour, 49.1 mg/l, OECD Test Guideline 202

Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, 184.57 mg/l, OECD Test Guideline 201

Toxicity to bacteria EC50, 3 Hour, 300.4 mg/l, OECD Test Guideline 209

Chronic toxicity to aquatic invertebrates

NOEC, 14 d, 32 mg/l

Graphite

Acute toxicity to fish

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species). LC50, Danio rerio (zebra fish), 96 Hour, > 100 mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 48 Hour, > 100 mg/l, OECD Test Guideline 202

Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, > 100 mg/l, OECD Test Guideline 201

Toxicity to bacteria

EC50, 3 Hour, > 1,012.5 mg/l, OECD Test Guideline 209

Zirconium oxide

Acute toxicity to fish

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species). LL50, Fish, static test, 96 Hour, > 100 mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

EC50, Daphnia (water flea), static test, 48 Hour, > 100 mg/l

Acute toxicity to algae/aquatic plants

EC50, Algae (Scenedesmus subspicatus), static test, 72 Hour, Growth inhibition, > 100 mg/l, OECD Test Guideline 201

Toxicity to bacteria

No data available

12.2 Persistence and degradability

Calcium hydroxide

Biodegradability: No relevant data found.

Graphite

Biodegradability: Biodegradation is not applicable.

Zirconium oxide

Biodegradability: No relevant data found.

12.3 Bioaccumulative potential

Calcium hydroxide

Bioaccumulation: Not applicable

Graphite

Bioaccumulation: No relevant data found.

Zirconium oxide

Bioaccumulation: Partitioning from water to n-octanol is not applicable.

12.4 Mobility in soil

Calcium hydroxide

No relevant data found.

Graphite

No relevant data found.

Zirconium oxide

No relevant data found.

12.5 Results of PBT and vPvB assessment

Calcium hydroxide

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Graphite

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Zirconium oxide

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

12.6 Other adverse effects

Calcium hydroxide

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Graphite

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Zirconium oxide

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

SECTION 14: TRANSPORT INFORMATION

Classification for ROAD and Rail transport (ADR/RID):

- 14.1 UN number Not applicable
- 14.2 UN proper shipping name Not regulated for transport
- 14.3 Transport hazard class(es) Not applicable
- 14.4 Packing group Not applicable
- **14.5 Environmental hazards** Not considered environmentally hazardous based on

available data.

14.6 Special precautions for user No data available.

Classification for SEA transport (IMO-IMDG):

- 14.1 UN numberNot applicable
- **14.2 UN proper shipping name** Not regulated for transport
- **14.3 Transport hazard class(es)** Not applicable
- **14.4** Packing groupNot applicable
- **14.5 Environmental hazards** Not considered as marine pollutant based on available data.
- 14.6 Special precautions for user No data available.
- 14.7 Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Classification for AIR transport (IATA/ICAO):

14.1UN numberNot applicable14.2UN proper shipping nameNot regulated for transport14.3Transport hazard class(es)Not applicable14.4Packing groupNot applicable14.5Environmental hazardsNot applicable14.6Special precautions for userNo data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

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

REACh Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered, or are exempt from registration according to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above.

However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

Skin Irrit. - 2 - H315 - Calculation method Eye Dam. - 1 - H318 - Calculation method

Revision

Identification Number: 2329689 / A670 / Issue Date: 10.02.2021 / Version: 2.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
GB EH40	UK. EH40 WEL - Workplace Exposure Limits
STEL	Short-term exposure limit (15-minute reference period)
TWA	Long-term exposure limit (8-hour TWA reference period)
Eye Dam.	Serious eye damage
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS -Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL -No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR -(Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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