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SECTION 4: First aid measures

4.1 Description of first-aid measures:

General comments:

Remove contaminated clothing.

By inhalation:

Provide fresh air.

On skin contact:

Rinse/shower skin with water.

On eye contact:

Rinse gently with water for several minutes.

If swallowed:

No special measures are necessary.

4.2 Main acute and delayed symptoms and effects:

No symptoms and effects are known so far.

4.3 Indication of immediate medical attention and special treatment required:

None.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Match fire-fighting measures to environment.

Water, foam, dry extinguishing powder, ABC powder.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture:

Flammable.

Hazardous combustion products;

Carbon monoxide (CO), Carbon dioxide (CO₂).

Can produce toxic carbon monoxide fumes in case of fire.

5.3 Advice for firefighters:

In case of fire and/or explosion, avoid breathing fumes.

With normal precautions, extinguish from a reasonable distance.

Wear self-contained breathing apparatus.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

For persons other than emergency services

No special measures are necessary.

6.2 Environmental precautions:

Avoid getting the product into drains, surface water or groundwater.

Retain and remove contaminated wash water.

6.3 Methods and materials for containment and cleaning:

Advice on how to contain the spill:

Covering drains.

Mechanical recording.

Advice on how to clean up the spill:

Mechanical recording.

Other information relating to discharge or release:

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Put into suitable containers for disposal.

6.4 Reference to other sections:

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Instructions for disposal: see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

No special measures are necessary.

Advice on general occupational hygiene:

Keep away from food, drink and animal feed.

7.2 Conditions for safe storage, including incompatibilities:

Storage:

Store in a dry place.

Incompatible substances or mixtures:

Note advice for chemical storage.

Incompatible materials: see section 10.

Consideration of other advice:

Specific designs for storage rooms or vessels.

Recommended storage temperature: 15-25°C

7.3 Specific end use:

No further relevant information available.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

National limits:

Occupational exposure limits (occupational exposure limits).

This information is not available.

8.2 Exposure control measures:

Individual protection measures (personal protective equipment):

Eye/face protection:

Wear safety goggles with side protection.

Skin protection:

Hand protection

Wear suitable gloves.

Suitable are EN 374-tested gloves against chemicals.

Type of material

NBR (nitrile rubber)

Material thickness

>0.11 mm

Breakthrough time of glove material

>480 minutes (permeation level: 6)

Other protective equipment:

Insert rest periods for skin regeneration.

Preventive skin protection (skin-protective creams) is recommended.

Respiratory protection:

Respiratory protection is necessary in case of: Dust generation.

Particle filter (EN 143).

P1 (filters at least 80% of air particles, colour code: white).

Managing environmental exposure:

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Avoid getting the product into drains, surface water or groundwater.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	solid
Colour:	colourless - pale yellow
Odour:	Odourless.
Melting/freezing point:	undetermined
Boiling point and boiling range:	undetermined
Flammability:	this material is flammable, but will not easily catch fire.
Lower and upper explosion limit:	irrelevant (solid)
Flash point:	not applicable
Self-ignition temperature:	>150 °C
Decomposition temperature:	irrelevant
pH value:	4-8 (in aqueous solution: 10 g/l, 25°C)
Kinematic viscosity:	irrelevant

Solubility(s)

Solubility in water: soluble

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure: not determined

Density and/or relative density

Density: not determined

Relative vapour density: irrelevant (solid)

Particle characteristics: No data available.

Other safety parameters

Oxidising properties: no

9.2 Other information

Information on physical hazard classes: hazard classes in accordance with GHS
(physical hazards): not relevant

Other safety features: There is no further information.

SECTION 10: Stability and reactivity

10.1 Reactivity:

The product in its delivered form is not capable of causing a dust explosion, however the enrichment of fine dust leads to a dust explosion hazard.

10.2 Chemical Stability:

The material is stable under normal atmospheric conditions and expected temperature and pressure during storage and handling.

10.3 Potential Hazardous Reactions:

Violent reaction with: strongly oxidising.

10.4 Conditions to avoid:

No specific conditions are known to be avoided.

10.5 Chemically interacting Materials:

There is no further information.

10.6 Hazardous Decomposition Products:

Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Classification according to GHS (1272/2008/EC, CLP):

This substance does not meet the criteria for classification according to Regulation No 1272/2008/EC.

Acute toxicity:

Cannot be classified as acutely toxic.

Skin corrosion/irritation:

Is not classifiable as corrosive/irritating to the skin.

Serious eye damage/eye irritation:

Cannot be classified as severely eye-injurious or irritating to the eyes.

Respiratory or skin sensitisation:

Is not classifiable as inhalant or skin allergenic.

Mutagenicity in gametes:

Is not classifiable as mutagenic in germ cells (mutagenic).

Carcinogenicity:

Is not classifiable as carcinogenic.

Reproductive toxicity:

Is not classifiable as a reproductive toxicant.

Specific target organ toxicity at single exposure:

Cannot be classified as toxic to specific target organs (single exposure).

Specific target organ toxicity on repeated exposure:

Cannot be classified as toxic to specific target organs (repeated exposure).

Inhalation hazard:

Is not classifiable as dangerous in aspiration.

Symptoms related to physical, chemical and toxicological properties:

After swallowing

No data are available.

In case of contact with eyes

No data are available.

After inhalation

No data are available.

On contact with skin

No data are available.

Other information

no

11.2 Endocrine disrupting properties

Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

11.3 Information on other hazards

There is no further information.

SECTION 12: Ecological information

12.1 Toxicity:

Cannot be classified as hazardous to the aquatic environment.

12.2 Persistence and Degradability:

No data are available.

12.3 Bioaccumulation:

No data are available.

12.4 Mobility in soil:

No data are available.

12.5 Results of PBT and vPvB assessment

No data are available.

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12.6 Endocrine disrupting properties

Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

No data are available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

For waste disposal, contact the responsible authorised waste disposal company.

Information regarding wastewater discharge:

Do not throw waste into the sink.

Waste treatment of containers/packaging

Contaminated packaging can be treated like the substance itself.

Fully emptied containers can be recycled.

Relevant provisions on waste prevention:

The allocation of waste key numbers/waste markings should be industry- and process-specific in accordance with AVV.

Notes:

Waste is separated into the categories that can be treated separately by local or national waste management services.

Please note the relevant national or regional provisions.

Uncontaminated and completely empty containers can be used again.

SECTION 14: Information relating to transport

14.1 UN number

The transport of this substance is not subject to regulations.

14.2 Proper cargo name according to UN model regulations

The transport of this substance is not subject to regulations.

14.3 Transport hazard class(es)

The transport of this substance is not subject to regulations.

14.4 Packing group

The transport of this substance is not subject to regulations.

14.5 Environmental hazards

The transport of this substance is not subject to regulations.

14.6 Special precautions for the user

The transport of this substance is not subject to regulations.

14.7 Sea transport in bulk in accordance with IMO instruments

The cargo is not meant to be transported in bulk.

14.8 Information for each of the UN regulations

Transport of dangerous goods by road, rail or inland waterway (ADR/RID/ADN) - Additional information:

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information:

Not subject to the IMDG.

International Civil Aviation Organisation (ICAO-IATA/DGR) - Additional information:

Not subject to ICAO-IATA.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

Relevant European Union (EU) provisions

Restrictions in accordance with REACH, Annex XVII

Not listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

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Not stated.

Seveso Directive: 2012/18/EU (Seveso III)

Not awarded

Decopaint Directive

VOC content: 0 %.

Directive on industrial emissions (IE Directive)

VOC content: 0 %.

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not listed

Water framework directive (WFD)

Not listed

Regulation on marketing and use of explosives precursors

Not listed

Regulation on drug precursors

Not listed

Regulation on ozone-depleting substances

Not listed

Regulation on export and import of dangerous chemicals (PIC)

Not listed

Regulation on persistent organic pollutants (POPs)

Not listed

Other information

Directive 94/33/EC on the protection of young people at work.

Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	List	Status
AU	AICS	substance is mentioned
CA	DSL	substance is mentioned
CN	IECSC	substance is mentioned
EU	ECSI	substance is mentioned
KR	KECI	substance is mentioned
MX	INSQ	substance is mentioned
NZ	NZIoC	substance is mentioned
PH	PICCS	substance is mentioned
TR	CICR	substance is mentioned
TW	TCSI	substance is listed (ACTIVE)
US	TSCA	substance is mentioned

Legend

AICS:	Australian Inventory of Chemical Substances
CICR:	Chemical Inventory and Control Regulation
DSL:	Domestic Substances List (DSL)
ECSI:	EC Inventory (EINECS, ELINCS, NLP)
IECSC:	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ:	National Inventory of Chemical Substances
KECI:	Korea Existing Chemicals Inventory
NZIoC:	New Zealand Inventory of Chemicals
PICCS:	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
TCSI:	Taiwan Chemical Substance Inventory

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TSCA: Toxic Substance Control Act

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Relevant phrases

Not applicable.

Indication of changes (revised safety data sheet)

Heading	Change	Security relevance
2.3	Endocrine-disrupting properties: Contains no endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.	Yes
15.1	National inventories: change in the list (table)	Yes

Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body Weight; CMR - Carcinogenic, Mutagenic or Toxic to Reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); EC_x - Concentration associated with x% response; EL_x - Loading capacity associated with x% response; EmS - Emergency schedule; ENCS - Existing and new chemicals (Japan); ErC_x - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good laboratory practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC₅₀ - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory List of Existing Chemicals; LC₅₀ - Lethal concentration for 50% of a test population; LD₅₀ - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; TCSI - Taiwan Inventory of Chemical Substances; TECI - Inventory of Chemicals Existing in Thailand; TSCA - Toxic Substances Control Act (USA); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and data sources

Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures.
Regulation (EC) No 1907/2006 (REACH), as amended by 2020/878/EU.
Transport of dangerous goods by road, rail or inland waterways (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for aviation (IATA).

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