

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 / Regulation (EU) 2020/878



PC/ABS V0

Version
2.0
IT/EN

Revision Date:
23.04.2024

SDS Number
1021

Date of last issue: 23.04.2024
Date of first issue: 23.04.2024
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : PC/ABS V0

Product code : 1021

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

Use of the Sub-stance/Mixture : Hight-performance material for fused deposition modeling

1.3 Details of the supplier of the safety data shewet

Company : Treedplast
Via Messina, 103
20831 Seregno MB
Italy
Telephone : +039(0)362/320500
Responsible/issuing person : sales@treedfilaments.com

1.4 Emergency telephone number

Telephone : CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma)
+39(0)6/68593726

Az. Osp. Univ. Foggia (Foggia)
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Az. Osp. "A. Cardarelli" (Napoli)
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CAV Policlinico "Umberto I" (Roma)
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CAV. Polinclinico "A. Gemelli" (Roma)
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(DE): GIZ Giftinformationszentrum-Nord
49(0)551/19240

(IT): OSPEDALE NIGUARDA
CENTRO ANTIVELENI
(39)0266101029

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No. 1272/2008)
Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No. 1272/2008)
Not a hazardous substance or mixture.

Additional Labelling

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe the dust.
EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

This product is a mixture.

CASRN / EC-No. / Index-No.	REACH Registra- tion Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
CASRN 103598-77-2 EC-No. Polymer Index-No.	-	<= 79.0 %	Polycarbonate	Not classified

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—				
CASRN 181028-79-5 EC-No. 605-913-3 Index-No. —	-	<= 16.0 %	Aromatic polyphosphate	Not classified
CASRN 9003-56-9 EC-No. Polymer Index-No. —	-	<= 13.0 %	Acrylonitrile/butadiene/styrene resin	Not classified
CASRN 13463-67-7 EC-No. 236-675-5 Index-No. —	01-2119489379-17	<= 2.0 %	Titanium dioxide	Not classified

If present in this product, any not classified components disclosed above for which no country specific OEL value(s) is(are) indicated under Section 8, are being disclosed as voluntarily disclosed components.

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.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with plenty of water.
Seek first aid or medical attention as needed. If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water.
DO NOT attempt to remove the material from skin.
Removal could result in severe tissue damage.
Seek medical attention immediately.
Suitable emergency safety shower facility should be immediately available.
- In case of eye contact : Flush eyes thoroughly with water for several minutes.
Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist. Remove contact lenses.

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If swallowed : If swallowed, seek medical attention.
May cause gastrointestinal blockage.
Do not give laxatives. 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: If burn is present, treat as any thermal burn, after decontamination. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. 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.
Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate.
This product contains a flame retardant to inhibit accidental ignition from small fire sources.
Dense smoke is produced when product burns.

Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
Combustion products may include and are not limited to:
Nitrogen oxides.
Carbon monoxide
Carbon dioxide
Combustion products may include trace amounts of:
Styrene.
Hydrogen cyanide.
Phenolic compounds.
Phosphorus oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting

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helmet, coat, trousers, boots, and gloves) If protective equipment is not available or not used, fight fire from a protected location or safe distance

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
In the event of fire and/or explosion do not breathe fumes

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Spilled material may cause a slipping hazard.
Use appropriate safety equipment.
For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2 Environmental precautions

Environmental precautions : Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spilled material if possible. Sweep up.
Collect in suitable and properly labeled containers.
See Section 13, Disposal Considerations, for additional information.

6.4 Reference to other sections

References to other sections, if applicable, have been provided in the previous sub-sections.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No smoking, open flames or sources of ignition in handling and storage area.
Good housekeeping and controlling of dusts are necessary for safe handling of product.
Avoid breathing process fumes.
When appropriate, unique handling information for containers can be found on the product label.
Workers should be protected from the possibility of contact with molten resin.
Do not get molten material in eyes, on skin or clothing.
Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate.
Dust can be ignited by static discharge

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in accordance with good manufacturing practices.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

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.

Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the product and no exposure would be expected under normal handling conditions.

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

Apply measures to prevent dust explosions.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields
Equipment should conform to EN 166

Hand protection
Material : Protective gloves
Directive : Equipment should conform to EN 374

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Request information on glove permeation properties from the glove supplier. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.

Skin and body protection : Safety shoes
Wear suitable protective clothing

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Respiratory protection : Effective dust mask
In the case of vapour formation use a respirator with an approved filter.

Protective measures : Follow the skin protection plan.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: filament	
Colour	: Natural	
Odour	: odourless	:
Odour Threshold	: No test data available	
Melting point/range	: Not applicable	
Pour point	: Not applicable	
Softening point		
Melting point/range		
Boiling point/boiling range	: Not applicable	
Flammability	: Not expected to form explosive dust-air mixtures.	
Upper explosion limit / Upper flammability limit	: No data available	
Lower explosion limit / Lower flammability limit	: No data available	
Flash point	: Method: closed cup Not applicable	
Evaporation rate	: No test data available	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
pH	: No test data available	
Freezing point	: Not applicable	
Viscosity		
Viscosity, kinematic	: No test data available	
Solubility(ies)		
Water solubility	: negligible	

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Partition coefficient: n-octanol/water	:	No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).
Vapour pressure	:	No test data available
Relative vapour density	:	Not applicable
Explosive properties	:	No test data available
Oxidizing properties	:	No test data available

9.2 Other information

Molecular weight	:	No test data available
Particle size	:	not determined
Self-ignition	:	The substance or mixture is not classified as pyrophoric.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Polymerization will not occur.

10.4 Conditions to avoid

Conditions to avoid :
Avoid temperatures above 340 °C
Exposure to elevated temperatures can cause product to decompose.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials.. Processing may release fumes and other decomposition products. At temperatures exceeding melt temperatures, polymer fragments can be released. Fumes can be irritating..

Decomposition products can include and are not limited to:

Carbon monoxide.

Carbon dioxide.

Aromatic compounds.

Hydrocarbons.

Phenolics.

Polymer fragments.

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SECTION 11: Toxicological information

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

Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)

Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
May cause choking if swallowed.

Single dose oral LD50 has not been determined.

Typical for this family of materials.
LD50, Rat, > 5,000 mg/kg Estimated.

Information for components

Polycarbonate

LD50, Rat, > 5,000 mg/kg

Aromatic polyphosphate

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

Acrylonitrile/butadiene/ styrene resin

Single dose oral LD50 has not been determined.

Titanium dioxide

LD50, Rat, > 10,000 mg/kg

Acute dermal toxicity

No adverse effects anticipated by skin absorption.

The dermal LD50 has not been determined.

Typical for this family of materials.
LD50, Rabbit, > 2,000 mg/kg Estimated.

Information for components:

Polycarbonate

LD50, Rabbit, > 2,000 mg/kg No deaths occurred at this concentration.

Aromatic polyphosphate

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

Acrylonitrile/butadiene/ styrene resin

The dermal LD50 has not been determined.

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Titanium dioxide

LD50, Rabbit, 10,000 mg/kg

Acute inhalation toxicity

No adverse effects are anticipated from single exposure to dust. Vapors released during thermal processing may cause respiratory irritation.

The LC50 has not been determined.,

Information for components:

Polycarbonate

The LC50 has not been determined.

Aromatic polyphosphate

At room temperature, exposure to vapor is minimal due to low volatility. For respiratory irritation and narcotic effects: No relevant data found.

The LC50 has not been determined.

Acrylonitrile/butadiene/ styrene resin

The LC50 has not been determined.

Titanium dioxide

LC50, Rat, male, 4 Hour, dust/mist, > 6.82 mg/l No deaths occurred at this concentration.

Skin corrosion/irritation

Prolonged contact is essentially nonirritating to skin. Mechanical injury only.

Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.

Information for components:

Aromatic polyphosphate

Brief contact is essentially nonirritating to skin.

Prolonged contact is essentially nonirritating to skin.

Titanium dioxide

Essentially nonirritating to skin.

Serious eye damage/eye irritation

Solid or dust may cause irritation or corneal injury due to mechanical action.

Elevated temperatures may generate vapor levels sufficient to cause eye irritation. Effects may include discomfort and redness.

Information for components:

Aromatic polyphosphate

May cause slight eye irritation.

Corneal injury is unlikely.

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Titanium dioxide

Solid or dust may cause irritation due to mechanical action.

Sensitization

For skin sensitization:
No relevant data found.

For respiratory sensitization:
No relevant data found.

Information for components:

Aromatic polyphosphate

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

For respiratory sensitization:
No relevant data found.

Titanium dioxide

Did not demonstrate the potential for contact allergy in mice.
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.

Information for components:

Titanium dioxide

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

Aspiration Hazard

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

Information for components:

Aromatic polyphosphate

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

Titanium dioxide

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

Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)

Specific Target Organ Systemic Toxicity (Repeated Exposure)

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Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

Information for components:

Aromatic polyphosphate

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

Titanium dioxide

Repeated excessive inhalation exposures to dusts may cause respiratory effects. In animals, effects have been reported on the following organs:
Lung.

Carcinogenicity

No relevant data found.

Information for components

Aromatic polyphosphate

No relevant data found.

Titanium dioxide

Lung fibrosis and tumors have been observed in rats exposed to titanium dioxide in two lifetime inhalation studies. Effects are believed to be due to overloading of the normal respiratory clearance mechanisms caused by the extreme study conditions.
Workers exposed to titanium dioxide in the workplace have not shown an unusual incidence of chronic respiratory disease or lung cancer.
Titanium dioxide was not carcinogenic in laboratory animals in lifetime feeding studies.

Teratogenicity

No relevant data found.

Information for components:

Aromatic polyphosphate

No relevant data found.

Titanium dioxide

No relevant data found.

Reproductive toxicity

No relevant data found.

Information for components:

Aromatic polyphosphate

No relevant data found.

Titanium dioxide

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No relevant data found.

Mutagenicity

No relevant data found.

Information for components:

Aromatic polyphosphate

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Titanium dioxide

In vitro genetic toxicity studies were negative in some cases and positive in other cases.
Animal genetic toxicity studies were negative.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

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

12.1 Toxicity

Product:

Toxicity to fish : Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

12.2 Persistence and degradability

Product:

Biodegradability : This water-insoluble polymeric solid is expected to be inert in the environment.
Surface photodegradation is expected with exposure to sunlight.
No appreciable biodegradation is expected.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

12.4 Mobility in soil

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Product:

Mobility

- : In the terrestrial environment, material is expected to remain in the soil.
In the aquatic environment, materials with a specific gravity > 1 will sink and remain in the sediment, while those with a specific gravity <= 1 are expected to float.

12.5 Results of PBT and vPvB assessment

Product:

Assessment

- : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

- : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information

- : Should not be released into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

- : Dispose of in accordance with the European Directives on waste and hazardous waste.
In accordance with local and national regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Contaminated packaging

- : Dispose of in accordance with local regulations.
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADR

- : Not regulated as a dangerous good

RID

- : Not regulated as a dangerous good

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IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Water hazard class (Italy) : No data available

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.

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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

Further information

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 / Regulation (EU) 2020/878



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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; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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