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

· **1.1 Product identifier**
· **Trade name: Purified Isophthalic Acid (PIA)**
· **Synonyms:** 1,3-Benzenedicarboxylic acid; IPA; purified isophthalic acid, PIA.
· **CAS Number:** 121-91-5
· **EC number:**
204-506-4
· **Registration number** 01-2119488938-12-0075
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
Purified isophthalic acid (PIA) is mainly used as an intermediate in the production of unsaturated polyester resins, followed by polyester and alkyd resins (mainly for surface coatings) and inks, reinforced plastics and packaging applications.
· **Application of the substance / the mixture**
Preparation of coatings
Intermediate
Resin
Laboratory chemicals

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Formosa Chemicals Industries (Ningbo) Limited Company
FPG Ningbo Industrial Park, Beilun Ningbo, China
+86-574-86902999 Ext:2503
Fax: +86-574-86902953
· **Only Representative**
TÜV SÜD Iberia S.A.U.
Ronda Can Fatjó 13
08290 Cerdanyola del Vallès (Barcelona)
Spain
· **Further information obtainable from:**
reach.es@tuvsud.com
jeff.chem3@fcfc.com.tw
jiangmeng@fpg.com.cn
· **1.4 Emergency telephone number:** FCINB: +86-574-86902999 Ext. 2509

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008** The substance is not classified, according to the CLP regulation.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008** Not applicable
· **Hazard pictograms** Not applicable
· **Signal word** Not applicable
· **Hazard statements** Not applicable
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** The substance does not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.
· **vPvB:** The substance does not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

· **3.1 Substances**
· **CAS No.**
121-91-5

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· **CAS Description:** 1,4-Benzenedicarboxylic acid
· **Identification number(s)**
· **EC number:** 204-506-4
· **Impurities and stabilising additives:**
Minor impurity content < 0.1%

CAS: 99-04-7 EINECS: 202-723-9	m-toluic acid Acute Tox. 4, H302
CAS: 619-21-6 EINECS: 210-585-6	3-formylbenzoic acid Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335
CAS: 65-85-0 EINECS: 200-618-2 Index number: 607-705-00-8	Benzoic acid STOT RE 1, H372 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
Seek immediate medical advice.
Keep patient calm, remove to fresh air, seek medical attention.
· **After skin contact:**
Generally the product does not irritate the skin.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· **After eye contact:**
Wash inmediateley and abundantly with running water for at least 15 minutes, keeping eyes open.
Protect unharmed eye.
Seek medical treatment.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult a doctor.
Do not induce vomiting; call for medical help immediately.
Do not give anything by mouth to an unconscious person.
Keep affected person warm and at rest.
Seek immediate medical advice.
· **4.2 Most important symptoms and effects, both acute and delayed**
Dusts may cause skin irritation due to abrasion.
Dusts may cause eye mechanical irritation including pain, tearing and redness. Effects may become more serious with repeated or prolonged contact.
Dusts may cause irritation to the nose, throat and lungs by mechanical abrasion. Symptoms may include sore throat, coughing, labored breathing, sneezing and burning sensation, depending on the concentration and duration of exposure.
Ingestion of large amounts may cause gastrointestinal disturbances.
· **4.3 Indication of any immediate medical attention and special treatment needed**
Treatment should be in general symptomatic to relieve any effects.

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SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
Use water spray, dry chemical, carbon dioxide or fire-fighting foam for Class B fires to extinguish fire.
· **For safety reasons unsuitable extinguishing agents:** Do not use water jet.
· **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO_2).
This material may accumulate static charge which can cause an electrical spark (ignition source) in some cases.
Fine dust clouds may form explosive mixtures with air.
To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Dust may form an explosive mixture in air when dispersed in a confined space.
The ignition of a sufficient concentration of a combustible dust in air in an unconfined space may result in a fireball and explosion.
· **5.3 Advice for firefighters** Eliminate ignition sources.
· **Protective equipment:**
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and suitable protective clothing.
Wear fully protective suit.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Use a vacuum equipped with a High Efficiency Particulate Aerosol (HEPA) filter
Ensure all equipment is non sparking or electrically bonded.
Keep away from ignition sources.
Keep people at a distance and stay on the windward side.
Wear protective equipment. Keep unprotected people away.
Avoid formation of dust.
Stay upwind.
Isolate for 800 meters (1/2 mile) in all directions if tank, rail car or tank truck is involved in fire.
· **6.2 Environmental precautions:**
If the material is released into the environment, take immediate steps to stop and contain the spill.
Isolate the danger zone and do not allow access.
Caution should be exercised regarding the safety of personnel and exposure to released material.
Notify local, provincial and/or federal authorities if necessary.
Preventing seepage into the sewerage system/surface water/groundwater.
· **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Do not breathe dust.
Ensure good ventilation/exhaustion at the workplace.

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Prevent formation of dust.
Store in cool, dry place in tightly closed receptacles.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Do not generate dust clouds if ignition sources are present.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:** Keep away from ignition sources.
· **Requirements to be met by storerooms and receptacles:**
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a cool place.
· **Information about storage in common storage facility:**
Empty containers may contain material residue.
Store away from oxidising agents.
· **Further information about storage conditions:**
Do not eat, drink or smoke in areas of use or storage.
Avoid contact with strong oxidants.
· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 121-91-5 isophthalic acid	
AGW (Germany)	Long-term value: 5E mg/m³ 2(I);Y, DFG
LEP (Spain)	Valor de corta duración: 4* 10** mg/m³ Valor de larga duración: 2* 5** mg/m³ *propuesta; **entrada en vigor: 2016
MAK (Switzerland-german)	Kurzzeitwert: 10 e mg/m³ Langzeitwert: 5 e mg/m³ SSc;
PRD (Lithuania)	IPRD Ilgalaikio poveikio ribinis dydis: 0.2 mg/m³ O J
AER (Latvia)	Ilgstoša vērtība: 0.2 mg/m³

· **DNELs**		
CAS: 121-91-5 isophthalic acid		
Oral	DNEL	1.3 mg/kg bw/day (population)
Dermal	DNEL	25 mg/kg bw/ day (workers)
	DNEL	12.5 mg/kg bw/day (population)
Inhalative	DNEL	8.8 mg/m³ (workers)
	DNEL	2.2 mg/m³ (population)

· **PNECs**
PNEC oral: not determined, no potential for bioaccumulation.

CAS: 121-91-5 isophthalic acid	
PNEC water (freshwater)	0.907 mg/L (general)

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Trade name: Purified Isophthalic Acid (PIA)

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PNEC water (marine water)	0.0907 mg/L (general)
PNEC sediment (freshwater)	1.246 mg/kg sed dw (general)
PNEC soil	1.69 mg/kg soil dw (general)
PNEC STP	16 mg/L (general)
PNEC water (int releases)	9 mg/L (general)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls**
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Have eye washing facilities readily available where eye contact can occur.
Applying good personal hygiene practices, such as the proper handling of contaminated clothing, the use of washing facilities before entering public areas, and the restriction of eating, drinking, and smoking in designated areas are essential to prevent chemical contamination.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Do not inhale dust / smoke / mist.
Do not eat, drink, smoke or sniff while working.
Have an emergency shower and eyewash in work areas
· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
In atmospheres with insufficient oxygen levels, use a self-contained breathing apparatus (SCBA), since an air-purifying respirator will not protect.
· **Hand protection**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye/face protection**

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**

· **Colour:**	White
· **Smell:**	Characteristic
· **Olfactory threshold:**	Not determined
· **Melting point/freezing point:**	348 °C (@ 3447379 Pa)

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· **Boiling point or initial boiling point and boiling range**	345 °C (sublimation)
· **Flammability**	Substance is not flammable.
· **Lower and upper explosion limit**	
· **Lower:**	Not determined
· **Upper:**	Not determined
· **Flash point:**	Experimental flashpoint determination is not required.
· **Decomposition temperature:**	Not determined
· **pH**	The pH of isophtalic acin in saturated solution is 3,30 @ 25ºC (Sheehan 1986)
· **Viscosity:**	
· **Kinematic viscosity**	Not applicable.
· **Dynamic:**	Not applicable.
· **Solubility**	
· **water at 25 °C:**	0.12 g/l
· **alcohols:**	No aplicable.
· **organic solvents:**	It is not expected that the stability of Isophthalic acid in organic solvents is critical. Limits of the solubility of isophthalic acid at 25 degrees C are published for five organic solvents: glacial acetic acid (0.23 %, w/w), methanol (2.5 % w/w), n-propanol (1.7% w/w) dimethylformamide (37 % w/w) and DMSO (64 % w/w) (Park & Sheehan, 1996).
· **Partition coefficient n-octanol/water (log value) at 25 °C**	1.66 log POW Not determined
· **Vapour pressure at 25 °C:**	3.2E-7 hPa
· **Density and/or relative density**	
· **Density at 20 °C:**	1.53 g/cm³
· **Relative density at 20 °C**	1.53 g/cm³
· **Vapour density**	Not applicable
· **Particle characteristics**	See item 3.

· **9.2 Other information**	
· **Appearance:**	Solid
· **Form:**	A white (colourless), crystalline powder
· **Important information on protection of health and environment, and on safety.**	
· **Auto-ignition temperature:**	Not determined
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/dust mixtures is possible.
· **Softening point/range**	Not applicable
· **Oxidising properties**	The substance does not contain structures associated with oxidising properties.
· **Evaporation rate**	Not applicable
· **Surface tension**	Not applicable
· **Dissociation constant**	pK_1=3.62 @ 25ºC pK_2=4.60 @ 25ºC

· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void

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· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

SECTION 10: Stability and reactivity

· **10.1 Reactivity** The product is stable and does not react under normal conditions.
· **10.2 Chemical stability** The product is stable under ordinary conditions.
· **Thermal decomposition / conditions to be avoided:**
Combustion may produce carbon oxides (CO, CO_2).
Ignition of a dust cloud in an unconfined area.
· **10.3 Possibility of hazardous reactions**
Reacts with acids.
Reacts with oxidising agents.
Forms explosive gas mixture with air.
· **10.4 Conditions to avoid** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
· **10.5 Incompatible materials:** Oxidizing and strong oxidising agents, acids.
· **10.6 Hazardous decomposition products:** Combustion may produce carbon oxides (CO, CO_2).

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.
· **General information:**

· **LD/LC50 values relevant for classification:**

CAS: 121-91-5 isophthalic acid

Oral	LD50	10900 mg/kg bw (rat) (OECD Guideline 401)
Dermal	LD50	2000 mg/kg (rabbit) (Similar to OECD Guideline 402)
Inhalative	LC50/4h	11370 mg/m³ (rat) (Similar to OECD Guideline 403)

· **Skin corrosion/irritation**
Based on available data, the classification criteria are not met.
Based on a study on the dermal irritancy of isophthalic acid in three New Zealand white rabbits following a 4 hour exposure period. No dermal reactions were seen in this study.
· **Serious eye damage/irritation**
Based on available data, the classification criteria are not met.
Based on a study where 0.1 g of the test substance isophthalic acid was instilled into one eye of six New Zealand white rabbits. The test animals were observed for 14 days following test substance administration. Signs of mild eye irritation (conjunctival effects) which were reversible within 96 hours were observed in all animals.

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

CAS: 121-91-5 isophthalic acid		
Oral	NOAEL (carcinogenicity)	142 mg/kg bw/day (rat) (Read-across from terephthalic acid)

· **Germ cell mutagenicity**
Based on available data, the classification criteria are not met.
Equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **Repeated dose toxicity**
Based on available data, the classification criteria are not met.

CAS: 121-91-5 isophthalic acid		
Oral	LOAEL Rep Dose	500 mg/kg/day (rat) (90-day dietary rat study)
Inhalative	NOAEC	9.59 mg/m³ (rat) (28-day rat inhalation study)

· **11.2 Information on other hazards**
· **Endocrine disrupting properties** Substance is not listed.

SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:**
Based on available data, the classification criteria are not met.
Isophthalic acid presents low toxicity to aquatic microorganisms and to biological waste water treatment systems.

CAS: 121-91-5 isophthalic acid	
LC50/48h (static)	952 mg IPA-equiv/L (Daphnia sp.) (OECD Guideline 202)
EC50/3h (static)	617.7 mg/l (Micro-organisms) (OECD Guideline 209)
NOEC (21d)	19.5 mg/L (invertebrates) (terephthalic acid (TPA) Read across study)
EC10/LC10	158.3 mg/L (Micro-organisms) (OECD Guideline 209)
LC50/96 h	907 mg/l (Leuciscus idus) (terephthalic acid (TPA) Read across study)
NOEC (static)	1000 mg/l (Scenedesmus subspicatus) (OECD Guideline 201)

· **12.2 Persistence and degradability**
Readily biodegradable.
Readily biodegradability study: test data showed >60% mineralisation (CO_2 production) after 7 days.
· **12.3 Bioaccumulative potential**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
Isophthalic acid is not expected to remain stable in the form of the free acid under environmental conditions. Aquatic ecotoxicology studies have been conducted with IPA after converting it to its disodium salt to increase its solubility and the range of achievable exposure concentrations. This is considered representative of the likely behaviour of IPA in the environment. The increased aqueous solubility of isophthalate salts relative to that of the free acid implies a corresponding decrease in $\log_{10}$ Kow and hence bioconcentration/bioaccumulation potential.
· **12.4 Mobility in soil**
Koc values modeled by (Q)SAR for isophthalic acid range from 11.86 to 79.24 L/kg.
Based on these values, isophthalic acid is classified as moderately to very mobile and is expected to have a low tendency to adsorb to soils and sediments.

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· **12.5 Results of PBT and vPvB assessment**
· **PBT:** The substance does not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.
· **vPvB:** The substance does not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.
· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers
External treatment and disposal of waste should comply with applicable local and/or national regulations.
Must not be disposed together with household garbage.

· **Uncleaned packaging:**
· **Recommendation:** Dispose of this material in accordance with all applicable local and national regulations.
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR, ADN, IMDG, IATA**	Not applicable
· **14.2 UN proper shipping name**	
· **ADR**	not applicable
· **ADN, IMDG, IATA**	Not applicable
· **14.3 Transport hazard class(es)**	Not applicable
· **ADR, ADN, IMDG, IATA**	
· **Class**	not applicable
· **14.4 Packing group**	Not applicable
· **ADR, IMDG, IATA**	not applicable
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Not applicable
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable
· **UN "Model Regulation":**	not applicable

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SECTION 15: Regulatory information

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

· **Inventory - United States - Toxic Substances Control Act (TSCA)**		
CAS: 121-91-5	isophthalic acid	ACTIVE

· **OECD - List of High Production Volume Chemicals** Substance is not listed.
· **Inventory - Canada - Domestic Substances List (DSL)** Substance is listed
· **Philippines Inventory of Chemicals and Chemical Substances** Substance is listed.
· **Chinese Chemical Inventory of Existing Chemical Substances (IECSC)** Substance is listed.
· **Australian Inventory of Industrial Chemicals** Substance is listed.

· **Inventory - Korea - Existing and Evaluated Chemical Substances**		
CAS: 121-91-5	isophthalic acid	KE-02189

· **New Zealand Inventory of Chemicals** Substance is listed.
· **TCSI - Taiwan Chemical Substance Inventory** Substance is listed.

· **Japan Existing and New Chemical Substances (ENCS)**		
CAS: 121-91-5	isophthalic acid	3-1332

· **Labelling according to Regulation (EC) No 1272/2008** Not applicable
· **Hazard pictograms** Not applicable
· **Signal word** Not applicable
· **Hazard statements** Not applicable
· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
· **REGULATION (EU) 2019/1148**
· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
Substance is not listed.
· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
· **Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.
· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
Substance is not listed.
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Exposure scenarios**
This substance is not classified for human health or the environment, is not a CMR and is not PBT or vPvB. Therefore, it is not required the development of exposure scenarios.
· **Abbreviations and acronyms:**
ICAO: International Civil Aviation Organisation.
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
NOAEL: Non Observed Adverse Effect Level.
LOAEL: Lowest Observed Adverse Effect Level.
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road).

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IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
GHS: Globally Harmonised System of Classification and Labelling of Chemicals.
EINECS: European Inventory of Existing Commercial Chemical Substances.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
DNEL: Derived No-Effect Level (REACH).
PNEC: Predicted No-Effect Concentration (REACH).
LC50: Lethal concentration, 50 percent.
LD50: Lethal dose, 50 percent.
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: very Persistent and very Bioaccumulative.

· **Sources** REACH Registration data.
· *** Data compared to the previous version altered.**
Version 1: 27 / 06 / 2022
First issue according to Regulation 1907/2006 (EC), Article 31.
Version 2: 08 / 11 / 2011
Update Registration Number

Annex: Exposure scenario

· **Short title of the exposure scenario** Empty section of the SDS: not required.