

| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
|---------|----------------|---------------|---------------------------------|
| 3.1 | 28.09.2024 | 4725085-00013 | Date of first issue: 02.08.2019 |

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

| 1.1 Product identifier Trade name | : | Palonosetron Formulation | | | |
|--|--|--|--|--|--|
| 1.2 Relevant identified uses o Use of the Sub- stance/Mixture | | ubstance or mixture and uses advised against Pharmaceutical | | | |
| Recommended restrictions on use | : | Not applicable | | | |
| 1.3 Details of the supplier of t | 1.3 Details of the supplier of the safety data sheet | | | | |
| Company | : | MSD Kilsheelan Clonmel Tipperary, IE | | | |
| Telephone | : | 353-51-601000 | | | |
| E-mail address of person | : | EHSDATASTEWARD@msd.com | | | |

1.4 Emergency telephone number

responsible for the SDS

+1-908-423-6000

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)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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.



| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
|---------|----------------|---------------|---------------------------------|
| 3.1 | 28.09.2024 | 4725085-00013 | Date of first issue: 02.08.2019 |

Ecological information: 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.

Toxicological information: 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

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|----------------------------|---|--|--------------------------|
| Palonosetron Hydrochloride | 135729-62-3 | STOT RE 2; H373 (Gastrointestinal tract, Kidney, Cen- tral nervous sys- tem, Testis) | < 0,1 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| Protection of first-aiders | : | No special precautions are necessary for first aid responders. |
|----------------------------|---|---|
| If inhaled | : | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| In case of skin contact | : | Wash with water and soap as a precaution. Get medical attention if symptoms occur. |
| In case of eye contact | : | Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. |

4.2 Most important symptoms and effects, both acute and delayed None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.



Palonosetron Formulation

| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
|---------|----------------|---------------|---------------------------------|
| 3.1 | 28.09.2024 | 4725085-00013 | Date of first issue: 02.08.2019 |

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. | | | |
| 2 Special hazards arising from the substance or mixture | | | | | |

5.2

| | Specific hazards during fire- fighting | : | Exposure to combustion products may be a hazard to health. |
|-----|---|---|---|
| | Hazardous combustion prod- ucts | : | Carbon oxides |
| 5.3 | Advice for firefighters | | |
| | Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment. |
| | Specific extinguishing meth- ods | : | Use extinguishing measures that are appropriate to local cir- cumstances 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. |

SECTION 6: Accidental release measures

6.1 Personal processions, protective equipment and emergency procedures

| 6.1 Personal precautions, protective equipment and emergency procedures | | | |
|---|---|--|--|
| Personal precautions | : | Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8). | |
| 6.2 Environmental precautions | | | |
| Environmental precautions | : | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. | |

6.3 Methods and material for containment and cleaning up

| Methods for cleaning up | : | Soak up with inert absorbent material. |
|-------------------------|---|--|
| 2 . | | For large spills, provide dyking or other appropriate contain- |
| | | ment to keep material from spreading. If dyked material can |



Palonosetron Formulation

| Version | Revision Date: 28.09.2024 | SDS Number: | Date of last issue: 06.04.2024 |
|---------|---------------------------|---|---|
| 3.1 | | 4725085-00013 | Date of first issue: 02.08.2019 |
| | | Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and | re recovered material in appropriate container. hing materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding hational 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 | 3 | |
|---|----|---|
| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : | Use only with adequate ventilation. |
| Advice on safe handling | : | Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Take care to prevent spills, waste and minimize release to the environment. |
| Hygiene measures | : | If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. |
| 7.2 Conditions for safe storage, i | nc | luding any incompatibilities |
| Requirements for storage areas and containers | : | Keep in properly labelled containers. Store in accordance with the particular national regulations. |
| Advice on common storage | : | Do not store with the following product types: Strong oxidizing agents Gases |
| 7.3 Specific end use(s) | | |
| Specific use(s) | : | No data available |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Palonosetron Formulation

| Vers 3.1 | sion Revision Da 28.09.2024 | | | | | | |
|-------------|--------------------------------|---------|------------------|--------------------|-------|--|--|
| | | | | | | | |
| Components | | CAS-No. | Value type (Form | Control parameters | Basis | | |

| | | of exposure) | | |
|------------------|------------|--------------|-------------------|----------|
| Palonosetron Hy- | 135729-62- | TWA | 0.4 μg/m3 (OEB 5) | Internal |
| drochloride | 3 | | | |
| | | Wipe limit | 4 μg/100 cm² | Internal |

8.2 Exposure controls

Engineering measures

Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted.

Totally enclosed processes and materials transport systems are required.

Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.

Personal protective equipment

| Eye/face protection | • | Wear safety glasses with side shields or goggles. |
|--------------------------|---|--|
| | • | If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. |
| Hand protection | | |
| Material | : | Chemical-resistant gloves |
| Remarks | : | Consider double gloving. |
| Skin and body protection | : | Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing. |
| Respiratory protection | : | If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 143 |
| Filter type | : | Particulates type (P) |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| : | Aqueous solution |
|---|-------------------|
| : | clear |
| : | No data available |
| : | No data available |
| | : |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Palonosetron Formulation

| Vers 3.1 | ion | Revision Date: 28.09.2024 | | S Number: 5085-00013 | Date of last issue: 06.04.2024 Date of first issue: 02.08.2019 |
|-------------|----------------------|---|---|-------------------------|---|
| | | | | | |
| | Melting | point/freezing point | : | No data available | |
| | Initial be range | piling point and boiling | : | No data available | |
| | Flamma | ability (solid, gas) | : | Not applicable | |
| | Flamma | ability (liquids) | : | No data available | |
| | | explosion limit / Upper bility limit | : | No data available | |
| | | explosion limit / Lower bility limit | : | No data available | |
| | Flash p | oint | : | No data available | |
| | Auto-igi | nition temperature | : | No data available | |
| | Decom | position temperature | : | No data available | |
| | рН | | : | 4,5 - 5,5 | |
| | Viscosit Visc | ty osity, kinematic | : | No data available | |
| | Solubili Wate | ty(ies) er solubility | : | No data available | |
| | Partition octanol | n coefficient: n- /water | : | Not applicable | |
| | Vapour | pressure | : | No data available | |
| | Relative | e density | : | No data available | |
| | Density | | : | 1,015 g/cm ³ | |
| | Relative | e vapour density | : | No data available | |
| | | characteristics icle size | : | Not applicable | |
| | | formation | | | |
| | Explosi | ves | : | Not explosive | |
| | Oxidizir | ng properties | : | The substance or | mixture is not classified as oxidizing. |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Palonosetron Formulation

| Version 3.1 | Revision Date: 28.09.2024 | | OS Number: 25085-00013 | Date of last issue: 06.04.2024 Date of first issue: 02.08.2019 |
|----------------|--|--------|----------------------------|---|
| Evap | poration rate | : | No data availab | le |
| Mole | ecular weight | : | No data availab | le |
| SECTIO | N 10: Stability and r | eacti | vity | |
| 10.1 Rea | - | | | |
| Not | classified as a reactivity | / haza | ırd. | |
| | mical stability le under normal condition | ons. | | |
| 10.3 Pos | sibility of hazardous r | eacti | ons | |
| | ardous reactions | : | | strong oxidizing agents. |
| 10.4 Con | ditions to avoid | | | |
| Con | ditions to avoid | : | None known. | |
| | mpatible materials | | | |
| Mate | erials to avoid | : | Oxidizing agent | S |
| | ardous decompositior | - | | |
| No h | azardous decompositio | on pro | ducts are known. | |
| | N 11: Toxicological | | | |
| | | | | gulation (EC) No 1272/2008 |
| | mation on likely routes | 01. | Inhalation Skin contact | |
| | | | Ingestion Eye contact | |
| Acut | te toxicity | | | |
| Not | classified based on avail | ilable | information. | |
| Com | ponents: | | | |
| Palo | nosetron Hydrochlori | de: | | |
| Acut | e oral toxicity | : | LDLo (Rat): 250 | mg/kg |
| | | | LDLo (Mouse): 1 | 00 mg/kg |
| | | | | |

LDLo (Dog): 50 mg/kg

Skin corrosion/irritation

Not classified based on available information.



Palonosetron Formulation

| rsion | Revision Date: 28.09.2024 | - | DS Number: 25085-00013 | Date of last issue: 06.04.2024 Date of first issue: 02.08.2019 | |
|--|--|---------|---|---|--|
| Comp | oonents: | | | | |
| Palon | osetron Hydrochlo | ride: | | | |
| Rema | rks | | | | |
| | us eye damage/eye assified based on ava | | | | |
| Respiratory or skin sensitisation | | | | | |
| | sensitisation assified based on ava | ailable | information. | | |
| Respiratory sensitisation Not classified based on available information. Germ cell mutagenicity Not classified based on available information. | | | | | |
| | | | | | |
| Palon | osetron Hydrochlo | | | | |
| Genot | toxicity in vitro | : | Test Type: Ame Result: negative | | |
| | | | | damage and repair, unscheduled DNA syr alian cells (in vitro) | |
| | | | | ro mammalian cell gene mutation test inese hamster ovary cells | |
| | | | | mosome aberration test in vitro inese hamster cells | |
| Genot | toxicity in vivo | : | Test Type: In viv Species: Mouse Result: negative | | |
| | nogenicity | | | | |
| | assified based on ava | ailable | information. | | |
| - | oductive toxicity assified based on ava | | | | |

Components:

Palonosetron Hydrochloride:

| Effects on fertility | : Test Type: Fertility |
|----------------------|--|
| - | Species: Rat, male |
| | Application Route: Intravenous |
| | Fertility: NOAEL: 10 mg/kg body weight |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Palonosetron Formulation

| Version 3.1 | Revision Date: 28.09.2024 | SDS Number: 4725085-00013 | Date of last issue: 06.04.2024 Date of first issue: 02.08.2019 |
|------------------------------------|---------------------------|--|---|
| | | Symptoms: No a | dverse effects |
| | | Test Type: Fertili Species: Rat Application Route Fertility: NOAEL: Symptoms: No e | e: Oral > 30 mg/kg body weight |
| Effects on foetal develop- ment | | Embryo-foetal to: | e: Oral oxicity: NOAEL: 18 mg/kg body weight kicity: LOAEL: > 60 mg/kg body weight iced body weight, No effects on foetal devel- |
| | | Developmental T | |

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Palonosetron Hydrochloride:

| Exposure routes | : | Ingestion |
|-----------------|---|--|
| Target Organs | : | Gastrointestinal tract, Kidney, Central nervous system, Testis |
| Assessment | : | May cause damage to organs through prolonged or repeated |
| | | exposure. |

Repeated dose toxicity

Components:

Palonosetron Hydrochloride:

| Species NOAEL LOAEL Application Route Exposure time Target Organs Remarks | | Mouse 60 mg/kg 150 mg/kg Oral 3 Months Kidney, male reproductive organs May cause damage to organs. |
|---|---|---|
| Species | : | Rat |
| NOAEL | : | 18 mg/kg |
| LOAEL | : | > 60 mg/kg |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Palonosetron Formulation

| Version 3.1 | Revision Date: 28.09.2024 | SDS Number: 4725085-00013 | Date of last issue: 06.04.2024 Date of first issue: 02.08.2019 | | |
|--|---|------------------------------|---|--|--|
| Application Route Exposure time Target Organs Remarks | | | tive organs, Liver icity observed in testing | | |
| Species LOAEL Application Route Exposure time Target Organs Remarks | | | 20 mg/kg Oral | | |
| Species NOAEL Application Route Exposure time Target Organs Remarks | | | us system, Gastrointestinal tract icity observed in testing | | |
| Expo Targe | EL cation Route sure time et Organs otoms | : Vomiting | us system, Gastrointestinal tract icity observed in testing | | |

Aspiration toxicity

Not classified based on available information.

Components:

Palonosetron Hydrochloride:

Not applicable

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.

Experience with human exposure

Components:

Palonosetron Hydrochloride:

Ingestion

Symptoms: The most common side effects are:, Headache,

:



Palonosetron Formulation

| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
|---------|----------------|---------------|---------------------------------|
| 3.1 | 28.09.2024 | 4725085-00013 | Date of first issue: 02.08.2019 |

Diarrhoea, Dizziness, Weakness, anxiety

SECTION 12: Ecological information

12.1 Toxicity

Components:

Palonosetron Hydrochloride:

Ecotoxicology Assessment

| Acute aquatic toxicity | : | Toxic effects cannot be excluded, No data available |
|------------------------|---|---|
|------------------------|---|---|

Chronic aquatic toxicity : Toxic effects cannot be excluded, No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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:

| ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation | Assessment | REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at |
|---|------------|---|
|---|------------|---|

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

:

13.1 Waste treatment methods

Product

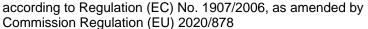
Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.



Palonosetron Formulation

| Version 3.1 | Revision Date: 28.09.2024 | SDS Number: 4725085-00013 | Date of last issue: 06.04.2024 Date of first issue: 02.08.2019 | | |
|---------------------------------|--|---|--|--|--|
| Contaminated packaging | | discussion v Do not dispo : Empty conta dling site for | Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste had dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. | | |
| SECTIO | N 14: Transport info | rmation | | | |
| 14.1 UN r | number or ID number | | | | |
| ADN | | : Not regulate | ed as a dangerous good | | |
| ADR | | : Not regulate | ed as a dangerous good | | |
| RID | | : Not regulate | ed as a dangerous good | | |
| IMDO | 6 | : Not regulate | d as a dangerous good | | |
| ΙΑΤΑ | | : Not regulate | d as a dangerous good | | |
| 14.2 UN p | proper shipping name | | | | |
| ADN | | : Not regulate | ed as a dangerous good | | |
| ADR | | : Not regulate | ed as a dangerous good | | |
| RID | RID : Not regulated as a dangerous good | | ed as a dangerous good | | |
| IMDO | 6 | : Not regulated as a dangerous good | | | |
| ΙΑΤΑ | | : Not regulate | d as a dangerous good | | |
| 14.3 Transport hazard class(es) | | | | | |
| ADN | | : Not regulate | ed as a dangerous good | | |
| ADR | | : Not regulate | ed as a dangerous good | | |
| RID | | : Not regulate | ed as a dangerous good | | |
| IMDO | 3 | : Not regulate | ed as a dangerous good | | |
| ΙΑΤΑ | | : Not regulate | ed as a dangerous good | | |
| 14.4 Pack | king group | | | | |
| ADN | | : Not regulate | ed as a dangerous good | | |
| ADR | | : Not regulate | ed as a dangerous good | | |
| RID | | : Not regulate | ed as a dangerous good | | |
| IMDO | 3 | : Not regulate | ed as a dangerous good | | |
| ΙΑΤΑ | (Cargo) | : Not regulate | ed as a dangerous good | | |
| ΙΑΤΑ | (Passenger) | : Not regulate | ed as a dangerous good | | |
| | ronmental hazards egulated as a dangerou | s good | | | |
| | cial precautions for us | - | | | |
| - | Net applicable | | | | |

Not applicable





| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
|---------|----------------|---------------|---------------------------------|
| 3.1 | 28.09.2024 | 4725085-00013 | Date of first issue: 02.08.2019 |

14.7 Maritime transport in bulk according to IMO instruments

Remarks

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the fol- lowing entries should be considered: Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor. |
|--|---|---|
|--|---|---|

: Not applicable for product as supplied.

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

| REACH - Candidate List of Substances of Very High | : | Not applicable |
|--|---|----------------|
| Concern for Authorisation (Article 59). | | |
| REACH - List of substances subject to authorisation | : | Not applicable |
| (Annex XIV) | | |
| Regulation (EC) on substances that deplete the ozone | : | Not applicable |
| layer | | |
| Regulation (EU) 2019/1021 on persistent organic pollu- | : | Not applicable |
| tants (recast) | | |
| Regulation (EU) No 649/2012 of the European Parlia- | : | Not applicable |
| ment and the Council concerning the export and import | | |
| of dangerous chemicals | | |

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

The components of this product are reported in the following inventories:

| AICS | : | not determined |
|-------|---|----------------|
| DSL | : | not determined |
| IECSC | : | not determined |

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information



Palonosetron Formulation

| Version 3.1 | Revision Date: 28.09.2024 | | DS Number: 25085-00013 | Date of last issue: 06.04.2024 Date of first issue: 02.08.2019 |
|--|---------------------------|------|---|---|
| Other information | | : | Items where changes have been made to the previous vers are highlighted in the body of this document by two vertical lines. | |
| Full | text of H-Statements | | | |
| H373 | 3 | : | May cause dama exposure if swall | ge to organs through prolonged or repeated owed. |
| Full text of other abbreviation | | ions | i | |
| STO | TRE | : | Specific target or | gan toxicity - repeated exposure |
| ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inl Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the T ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Reg tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Stand of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECH European Chemicals Agency; EC-Number - European Community number; ECx - Concentra | | | | ernational Carriage of Dangerous Goods by nicals; ASTM - American Society for the Test- ation Labelling Packaging Regulation; Regula- gen or Reproductive Toxicant; DIN - Standard Domestic Substances List (Canada); ECHA - ean 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; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

| Sources of key data used to | |
|-----------------------------|--|
| compile the Safety Data | |
| Sheet | |

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for



| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
|---------|----------------|---------------|---------------------------------|
| 3.1 | 28.09.2024 | 4725085-00013 | Date of first issue: 02.08.2019 |

safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NO / EN