



| Version 3.1 | Revision Date: 2023/09/26 | | S Number: 367-00023 | Date of last issue: 2023/03/20 Date of first issue: 2014/10/09 | | | | |
|----------------|---------------------------------------|-------|-------------------------------------|---|--|--|--|--|
| | | | | | | | | |
| | | | | | | | | |
| 1. PRODU | 1. PRODUCT AND COMPANY IDENTIFICATION | | | | | | | |
| Produ | uct name | : | Raltegravir Pedia | atric Formulation | | | | |
| Manu | Ifacturer or supplier's d | letai | ils | | | | | |
| Comp | | : | MSD | | | | | |
| Addre | Address | | 126 E. Lincoln Av Rahway, New Je | venue rsey U.S.A. 07065 | | | | |
| Telep | hone | : | 908-740-4000 | | | | | |
| Emer | gency telephone number | • : | 1-908-423-6000 | | | | | |
| E-ma | il address | : | EHSDATASTEW | /ARD@msd.com | | | | |
| Reco | mmended use of the ch | nem | ical and restriction | ons on use | | | | |
| | mmended use ictions on use | : | Pharmaceutical Not applicable | | | | | |
| | | • | | | | | | |

2. HAZARDS IDENTIFICATION

| GHS Classification Serious eye damage/eye irri- tation | : | Category 1 |
|--|---|--|
| Reproductive toxicity | : | Category 2 |
| Specific target organ toxicity - single exposure | : | Category 3 |
| GHS label elements | | |
| Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | H318 Causes serious eye damage. H335 May cause respiratory irritation. H361d Suspected of damaging the unborn child. |
| Precautionary statements | : | Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read |



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and understood.

P261 Avoid breathing dust.P271 Use only outdoors or in a well-ventilated area.P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|-------------|-----------------------|
| Raltegravir | 871038-72-1 | >= 20 -< 30 |

4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|-------------------------|---|--|
| If inhaled | : | If inhaled, remove to fresh air. Get medical attention. |
| In case of skin contact | : | In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact | : | In case of contact, immediately flush eyes with plenty of water |



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| | and eff delayed Protect | nportant symptoms ects, both acute and | : : : | Get medical atten If swallowed, DO Get medical atten Rinse mouth thom Causes serious e May cause respin Suspected of dan Contact with dust the skin. First Aid responde and use the recor when the potentia | ove contact lens, if worn. tion immediately. NOT induce vomiting. tion. oughly with water. ye damage. |
| 5. F | IREFIG | HTING MEASURES | | | |
| | Unsuita media | e extinguishing media able extinguishing c hazards during fire- | : | concentrations, a potential dust exp | CO2) dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a |
| | Hazard ucts | lous combustion prod- | : | Carbon oxides Nitrogen oxides (I Fluorine compour Chlorine compour Sulphur oxides Metal oxides | nds |
| | Specifi ods | c extinguishing meth- | : | cumstances and t Use water spray t | measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do |
| | Specia for firef | l protective equipment ighters | : | | e, wear self-contained breathing apparatus. tective equipment. |
| 6. A | CCIDE | NTAL RELEASE MEAS | SUF | RES | |
| | tive eq | al precautions, protec- uipment and emer- procedures | : | Follow safe hand | tective equipment. ing advice (see section 7) and personal pro- t recommendations (see section 8). |

| Environmental precautions | : | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. |
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| | ethods and materials for ntainment and cleaning up | Local authorities cannot be contain Surround spill with over the area to r Add excess liquid Soak up with iner Avoid dispersal of with compressed Dust deposits she es, as these may leased into the at Clean up remaini bent. Local or national posal of this mate employed in the of mine which regul Sections 13 and | th absorbents and place a damp covering minimise entry of the material into the air. d to allow the material to enter into solution. rt absorbent material. of dust in the air (i.e., clearing dust surfaces |
| 7. HAN | DLING AND STORAGE | | |
| | chnical measures | causing an explo Provide adequate and bonding, or i | e precautions, such as electrical grounding nert atmospheres. |
| Lo | cal/Total ventilation | : If sufficient ventila ventilation. | ation is unavailable, use with local exhaust |
| Ad | lvice on safe handling | Handle in accord practice, based o sessment Keep container ti | s. or repeated contact with skin. ance with good industrial hygiene and safety on the results of the workplace exposure as- |

to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place.



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| | Store in accordance with the particular national regulations. |
|--------------------|---|
| Materials to avoid | : Do not store with the following product types: |
| | Strong oxidizing agents |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components with workplace | ce cor | ntrol paramet | ers | | | | |
|--|--------|---|---|---|---------------------------------|--|--|
| Components | | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis | | |
| Raltegravir | 8 | 571038-72-1 | TWA | 1000 µg/m3 (OEB 1) | Internal | | |
| Engineering measures | | Apply measur Ensure that du dust collectors signed in a ma work area (i.e | es to prevent d ust-handling sys s, vessels, and anner to preven ., there is no lea | e concentrations. ust explosions. stems (such as exhau processing equipment it the escape of dust ir akage from the equipm vailable, use with local | i) are de- nto the nent). | | |
| Personal protective equipr | nent | | | | | | |
| Respiratory protection Filter type Hand protection | : | If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type | | | | | |
| Material | : | Chemical-resi | stant gloves | | | | |
| Remarks | | Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is no determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. | | | | | |
| Eye protection | : | Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: | | | | | |
| Skin and body protection | : | Face-shield Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective | | | | | |

eye flushing systems and safety showers close to the work-



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| | | | | ot eat, drink or smoke. ed clothing before re-use. |
| 9. PHYSI | CAL AND CHEMICAL PI | ROP | PERTIES | |
| Арре | earance | : | powder | |
| Colo | ur | : | yellow-orange | |
| Odou | ır | : | No data available | 9 |
| Odou | ur Threshold | : | No data available | e |
| pН | | : | No data available | e |
| Melti | ng point/freezing point | : | No data available | e |
| Initia range | l boiling point and boiling e | : | No data available | 9 |
| Flash | n point | : | No data available | 9 |
| Evap | ooration rate | : | No data available | 9 |
| Flam | mability (solid, gas) | : | May form explos dling or other me | ive dust-air mixture during processing, han- ans. |
| Flam | mability (liquids) | : | No data available | 9 |
| | er explosion limit / Upper nability limit | : | No data available | 2 |
| | er explosion limit / Lower nability limit | : | No data available | 9 |
| Vapo | our pressure | : | No data available | 9 |
| Relat | tive vapour density | : | No data available | 9 |
| Relat | tive density | : | No data available | 9 |
| | bility(ies) /ater solubility | : | No data available | e |
| | tion coefficient: n- | : | No data available | 9 |
| | nol/water -ignition temperature | : | No data available | 9 |
| Deco | omposition temperature | : | No data available | 9 |
| Visco Vi | osity iscosity, kinematic | : | No data available | 9 |

SAFETY DATA SHEET



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| | | | | | | | | |
| | Explosive properties | : | Not explosive | | | | | |
| | Oxidizing properties | : | The substance or | mixture is not classified as oxidizing. | | | | |
| | Molecular weight Particle size | | : No data available | | | | | |
| | | | : No data available | | | | | |
| 10. 5 | TABILITY AND REACTIVITY | , | | | | | | |
| | Reactivity Chemical stability Possibility of hazardous reac- tions | : | Stable under norm May form explosi dling or other me | ve dust-air mixture during processing, han- | | | | |
| | Conditions to avoid Incompatible materials Hazardous decomposition products | | Heat, flames and | | | | | |
| | | | Avoid dust formation.Oxidizing agentsNo hazardous decomposition products are known. | | | | | |
| 11. T | OXICOLOGICAL INFORMAT | | l | | | | | |
| | Information on likely routes of exposure | | : Inhalation Skin contact Ingestion Eye contact | | | | | |
| | Acute toxicity | | | | | | | |
| | Not classified based on availa | ble i | nformation. | | | | | |
| | Components: | | | | | | | |
| | Raltegravir: Acute oral toxicity | : | LD50 (Mouse, ma | le and female): > 2,000 mg/kg | | | | |
| | Skin corrosion/irritation Not classified based on availa | | nformation. | | | | | |
| | Components: | | | | | | | |
| | Raltegravir: Species Result | : | Rabbit No skin irritation | | | | | |
| | Serious eye damage/eye irri Causes serious eye damage. | tatio | on | | | | | |



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Components:

Raltegravir:

| Species | : | Bovine cornea |
|---------|---|-------------------|
| Result | : | Severe irritation |

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Raltegravir:

| Test Type | : | Local lymph node assay (LLNA) |
|-----------|---|-------------------------------|
| Species | : | Mouse |
| Result | : | negative |

Germ cell mutagenicity

Not classified based on available information.

Components:

Raltegravir:

| Nanegravii. | |
|-------------------------|--|
| Genotoxicity in vitro : | Test Type: reverse mutation assay Result: negative |
| | Test Type: Alkaline elution assay Test system: rat hepatocytes Result: negative |
| | Test Type: Chromosomal aberration Method: OECD Test Guideline 473 Result: negative |
| Genotoxicity in vivo : | Test Type: In vivo micronucleus test Species: Mouse Result: negative |
| | Test Type: Chromosomal aberration Method: OECD Test Guideline 475 Result: negative |

Carcinogenicity

Not classified based on available information.



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| Ra Sp Ex | emponents: Itegravir: ecies posure time sult | : 10 | ouse, male and 04 weeks egative | female | | | |
| Su | productive toxicity spected of damaging the u mponents: | inborn c | child. | | | | |
| | Itegravir: | _ | | | | | |
| Eff | Effects on fertility Effects on foetal develop- ment | | : Test Type: Fertility/early embryonic development Species: Rat, male and female Application Route: Oral General Toxicity - Parent: NOAEL: 600 mg/kg body weight Result: negative | | | | |
| | | | eratogenicity: LC | Oral Iaternal: NOAEL: >= 600 mg/kg body weight AEL F1: 300 mg/kg body weight al malformations | | | |
| | | Ge we Te | eight | 1aternal: NOAEL: >= 1,000 mg/kg body DAEL: >= 1,000 mg/kg body weight | | | |
| | productive toxicity - As- ssment | | ome evidence of nimal experiment | adverse effects on development, based on ts. | | | |
| | STOT - single exposure May cause respiratory irritatio | | | | | | |
| <u>Co</u> | mponents: | | | | | | |
| Ex Ta | Itegravir: posure routes rget Organs sessment | : Re | halation espiratory Tract ay cause respira | tory irritation. | | | |

STOT - repeated exposure

Not classified based on available information.

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Raltegravir Pediatric Formulation

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|---|---|--|--|
| | | | |
| | | | |
| | Repeated dose toxicity | | |
| <u>(</u> | Components: | | |
| | Raltegravir: | | |
| | Species | : Dog | |
| | NOAEL | : 90 mg/kg | |
| | Application Route | : Oral | |
| | Exposure time | : 371 d | |
| | Symptoms | : Vomiting | |
| | Species | : Rat | |
| | NOAEL | : 30 mg/kg | |
| | LOAEL | : 120 mg/kg | |
| | Application Route | : Oral | |
| | Exposure time | : 189 d | |
| | Target Organs | : Stomach | |
| ę | Species | : Mouse | |
| | NOAEL | : 50 mg/kg | |
| | LOAEL | : 500 mg/kg | |
| | Application Route | : Oral | |
| | Exposure time | : 14 Weeks | |
| | Target Organs | : Stomach | |
| ; | Species | : Rat | |
| | NOAEL | : 50 mg/kg | |
| | LOAEL | : 200 mg/kg | |
| | Application Doute | | |
| | Application Route | : Oral | |
| | Exposure time | : 8 Weeks | |
| | | | |
| - | Exposure time | : 8 Weeks | |
| - - | Exposure time Target Organs | : 8 Weeks : Stomach | |
| - / | Exposure time Target Organs Aspiration toxicity | : 8 Weeks : Stomach ailable information. | |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av | : 8 Weeks : Stomach ailable information. | |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human o | : 8 Weeks : Stomach ailable information. | |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human of Components: Raltegravir: | : 8 Weeks : Stomach ailable information. | ausea. Diarrhoea. Headache. Fever. Rash. S |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human of Components: | : 8 Weeks : Stomach ailable information. | ausea, Diarrhoea, Headache, Fever, Rash, S |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human of Components: Raltegravir: | : 8 Weeks : Stomach ailable information. exposure : Symptoms: Na irritation | ausea, Diarrhoea, Headache, Fever, Rash, S |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human of Components: Raltegravir: Ingestion | : 8 Weeks : Stomach ailable information. exposure : Symptoms: Na irritation | ausea, Diarrhoea, Headache, Fever, Rash, S |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human of Components: Raltegravir: Ingestion COLOGICAL INFORMAT Ecotoxicity | : 8 Weeks : Stomach ailable information. exposure : Symptoms: Na irritation | ausea, Diarrhoea, Headache, Fever, Rash, S |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human of Components: Raltegravir: Ingestion COLOGICAL INFORMAT Ecotoxicity Components: | : 8 Weeks : Stomach ailable information. exposure : Symptoms: Na irritation | ausea, Diarrhoea, Headache, Fever, Rash, S |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human of Components: Raltegravir: Ingestion COLOGICAL INFORMAT Ecotoxicity Components: Raltegravir: | : 8 Weeks : Stomach ailable information. exposure : Symptoms: Na irritation ION | |
| | Exposure time Target Organs Aspiration toxicity Not classified based on av Experience with human of Components: Raltegravir: Ingestion COLOGICAL INFORMAT Ecotoxicity Components: | : 8 Weeks : Stomach ailable information. exposure : Symptoms: Na irritation ION | ales promelas (fathead minnow)): > 100 mg/ |



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| | | | | | |
| | | | | Method: OECD Te | est Guideline 203 |
| | | | | LC50 (Cyprinodor mg/l Exposure time: 96 Method: OECD Te | |
| | | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| | Foxicity plants | to algae/aquatic | : | EC50 (Pseudokiro Exposure time: 96 Method: OECD Te | |
| | | | | NOEC (Pseudokir mg/l Exposure time: 96 Method: OECD Te | |
| | Foxicity city) | to fish (Chronic tox- | : | NOEC (Pimephale Exposure time: 33 Method: OECD Te | |
| а | | to daphnia and other invertebrates (Chron- ty) | : | NOEC (Daphnia r Exposure time: 21 Method: OECD Te | |
| Т | Foxicity | to microorganisms | : | EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te | h ation inhibition |
| | | | | NOEC: 1,000 mg/ Exposure time: 3 Test Type: Respir Method: OECD Te | h ation inhibition |
| F | Persist | ence and degradabili | ity | | |
| <u>c</u> | Compo | nents: | | | |
| | Raltegr Biodegr | avir: adability | : | Biodegradation: 5 Exposure time: 9 | 50 % |
| S | Stability | in water | : | Hydrolysis: < 10 % Method: OECD Te | |



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| Bioa | cumulative potential | | |
| | oonents: | | |
| Ralte Partit | gravir: on coefficient: n- ol/water | : log Pow: -0.32 | 28 |
| | l ity in soil Ita available | | |
| | r adverse effects ata available | | |
| 3. DISPC | SAL CONSIDERATION | IS | |
| - | osal methods e from residues | | e of waste into sewer. accordance with local regulations. |
| Conta | minated packaging | : Empty contain dling site for re | ers should be taken to an approved waste han- ecycling or disposal. e specified: Dispose of as unused product. |
| | SPORT INFORMATION | | |
| 4. IRAN | | | |
| | national Regulations | | |
| Intern UNR UN ni Prope Class Subsi | national Regulations FDG umber er shipping name diary risk ng group | Not applicable | |
| Intern UN ni Prope Class Subsi Packi Label IATA UN/IE Prope Class Subsi Packi Label Packi aircra | national Regulations FDG umber er shipping name diary risk ng group s -DGR D No. er shipping name diary risk ng group s ng group s ng instruction (cargo ft) | Not applicable | |
| Intern UN M Prope Class Subsi Packi Label IATA UN/IE Prope Class Subsi Packi aircra Packi aircra Packi ger ai IMDG UN m Prope Class | Actional Regulations TDG umber er shipping name diary risk ng group s DGR D No. er shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) a-Code umber er shipping name | Not applicable | |





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|---|--|---|---|
| | s Code le pollutant | Not applicableNot applicableNot applicable | |
| | - | - | RPOL 73/78 and the IBC Code |
| | pplicable for product a | | |
| - | ial precautions for u pplicable | ser | |
| | | ION | |
| | | | |
| Safet ture | y, health and enviro | nmental regulations/l | legislation specific for the substance or m |
| ter of | Industry Regulation | | PER/4/2013 concerning the Revision of Min /2009 concerning Globally Harmonized Sy als. |
| | lation of the Ministe rdous to Health | r of Health No. 472 of | f 1996 on the Safeguarding of Substances |
| | | | |
| Haza | rdous substances that | t must be registered | : Not applicable |
| | rnment Regulation I | - | : Not applicable Management of Hazardous and Toxic Sub |
| Gove stanc | rnment Regulation I | No. 74 of 2001 on the | |
| Gove stanc Haza | rnment Regulation I ces | No. 74 of 2001 on the | Management of Hazardous and Toxic Sub |
| Gove stanc Haza Prohi | rnment Regulation I ces rdous substances app | No. 74 of 2001 on the | Management of Hazardous and Toxic Sub |
| Gove stanc Haza Prohi Restr | ernment Regulation f ces rdous substances app bited substances icted substances | No. 74 of 2001 on the | Management of Hazardous and Toxic Sub : Not applicable : Not applicable |
| Gove stand Haza Prohi Restr Restr Mate Type | ernment Regulation I ces rdous substances app bited substances icted substances icted substances | No. 74 of 2001 on the | Management of Hazardous and Toxic Sub : Not applicable : Not applicable : Not applicable 22 on Distribution and Control of Hazardo |
| Gove stanc Haza Prohi Restr Regu Mate Type contro | ernment Regulation N ces rdous substances app bited substances icted substances lation of the Ministry rials of hazardous materia ol, Annex I | No. 74 of 2001 on the proved for use y of Trade No. 7 of 20 | Management of Hazardous and Toxic Sub : Not applicable : Not applicable : Not applicable D22 on Distribution and Control of Hazardo n and : Not applicable |
| Gove stand Haza Prohi Restr Regu Mate Type contro Type contro | ernment Regulation I ces rdous substances app bited substances icted substances lation of the Ministry rials of hazardous materia of hazardous materia of hazardous materia of hazardous materia of hazardous materia | No. 74 of 2001 on the proved for use y of Trade No. 7 of 20 Is subject to distribution Is subject to distribution | Management of Hazardous and Toxic Sub : Not applicable : Not applicable : Not applicable 22 on Distribution and Control of Hazardo n and : Not applicable n and : Not applicable in the following inventories: |
| Gove stand Haza Prohi Restr Regu Mate Type contro Type contro Type contro Type | ernment Regulation I ces rdous substances app bited substances icted substances lation of the Ministry rials of hazardous materia of hazardous materia of hazardous materia of hazardous materia of hazardous materia | No. 74 of 2001 on the proved for use y of Trade No. 7 of 20 Is subject to distribution | Management of Hazardous and Toxic Sub : Not applicable : Not applicable : Not applicable 22 on Distribution and Control of Hazardo n and : Not applicable n and : Not applicable in the following inventories: |
| Gove stand Haza Prohi Restr Regu Mate Type contro Type contro | ernment Regulation I ces rdous substances app bited substances icted substances lation of the Ministry rials of hazardous materia of hazardous materia of hazardous materia of hazardous materia of hazardous materia | No. 74 of 2001 on the proved for use y of Trade No. 7 of 20 Is subject to distribution Is subject to distribution | Management of Hazardous and Toxic Sub : Not applicable : Not applicable : Not applicable 22 on Distribution and Control of Hazardo n and : Not applicable n and : Not applicable in the following inventories: |



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| Furth | ner information | | | |
| | ces of key data used to ile the Safety Data t | : | | data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/ |
| Date | format | : | yyyy/mm/dd | |

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: NTP - National Toxicology Program: 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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 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.



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