

| Version | Revision Date: | SDS Number: | Date of last issue: 2023/09/30 |
|---------|----------------|---------------|---------------------------------|
| 2.2 | 2024/09/28 | 5939802-00009 | Date of first issue: 2020/05/26 |

1. PRODUCT AND COMPANY IDENTIFICATION

| Product name : | : | Phthalylsulfathiazole / Sulfamerazine Formulation | | |
|---|----------|--|--|--|
| Manufacturer or supplier's det Company | tai : | ils MSD | | |
| Address | : | 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065 | | |
| Telephone | : | 908-740-4000 | | |
| Emergency telephone number : | : | 1-908-423-6000 | | |
| E-mail address | : | EHSDATASTEWARD@msd.com | | |
| Recommended use of the chemical and restrictions on use | | | | |
| Recommended use : Restrictions on use : | : | Veterinary product Not applicable | | |

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

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

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 10 %

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. 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) |
|---------------|-----------|-----------------------|
| Kaolin | 1332-58-7 | >= 60 -<= 100 |



| | Version 2.2 | Revision Date: 2024/09/28 | SDS Number: 5939802-00009 | Date of last issue: 2023/09/30 Date of first issue: 2020/05/26 |
|--|----------------|---------------------------|------------------------------|---|
|--|----------------|---------------------------|------------------------------|---|

| Phthalylsulfathiazole | 85-73-4 | >= 10 -< 30 |
|-----------------------|------------|-------------|
| Aluminum hydroxide | 21645-51-2 | >= 10 -< 30 |
| Sulfamerazine | 127-79-7 | < 10 |

4. FIRST AID MEASURES

| G | 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. |
|-------------|---|---|---|
| lf | finhaled | : | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| Ir | n case of skin contact | : | Wash with water and soap. Get medical attention if symptoms occur. |
| Ir | n case of eye contact | : | If in eyes, rinse well with water. |
| lf | f swallowed | : | Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. |
| a d P | Nost important symptoms and effects, both acute and lelayed Protection of first-aiders | : | Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. No special precautions are necessary for first aid responders. Treat symptomatically and supportively. |
| | Notes to physician | • | |
| 5. FIR | EFIGHTING MEASURES | | |
| S | Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
| | Insuitable extinguishing nedia | : | None known. |
| | Specific hazards during fire- ighting | : | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health. |
| | lazardous combustion prod- icts | : | Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Metal oxides |
| | 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. |



| Version 2.2 | Revision Date: 2024/09/28 | | 9S Number: 39802-00009 | Date of last issue: 2023/09/30 Date of first issue: 2020/05/26 |
|----------------|--|---|---|--|
| | cial protective equipment irefighters | : | essary. | ned breathing apparatus for firefighting if nec- ptective equipment. |
| 6. ACCII | DENTAL RELEASE MEAS | SUF | RES | |
| tive | sonal precautions, protec- equipment and emer- cy procedures | : | | lling advice (see section 7) and personal pro- t recommendations (see section 8). |
| Env | Environmental precautions | | Retain and dispo | eakage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages |
| | Methods and materials for containment and cleaning up | | tainer for disposa Avoid dispersal of with compressed Dust deposits sh es, as these may leased into the a Local or national posal of this mate employed in the mine which regul Sections 13 and | of dust in the air (i.e., clearing dust surfaces |
| 7. HAND | LING AND STORAGE | | | |
| | hnical measures | : | causing an explo Provide adequate | may accumulate and ignite suspended dust sion. e precautions, such as electrical grounding nert atmospheres. |
| | al/Total ventilation ice on safe handling | Use only with adequate ventilation. Do not breathe dust. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposur sessment 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 | | equate ventilation. ust. ance with good industrial hygiene and safety on the results of the workplace exposure as- meration and accumulation. closed when not in use. heat and sources of ignition. ary measures against static discharges. |



| Version | Revision Date: 2024/09/28 | SDS Number: | Date of last issue: 2023/09/30 |
|---------|---------------------------|---------------|---------------------------------|
| 2.2 | | 5939802-00009 | Date of first issue: 2020/05/26 |
| | | | |

| Conditions for safe storage | : | environment. Keep in properly labelled containers. 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 | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|-----------------------|---|--|--|----------|
| Kaolin | 1332-58-7 | NAB (Res- pirable) | 2 mg/m3 | ID OEL |
| | | o classify these | fied as carcinogenic materials as carcinog | |
| | | TWA (Res- pirable par- ticulate mat- ter) | 2 mg/m3 | ACGIH |
| Phthalylsulfathiazole | 85-73-4 | TWA | OEB 2 (>= 100 < 1000 μg/m3) | Internal |
| Aluminum hydroxide | 21645-51-2 | NAB (Res- pirable par- ticulate mat- ter) | 1 mg/m3 (Aluminium) | ID OEL |
| | Further information: Not classified as carcinog enough data to classify these materials as card mans or animals | | | |
| | | TWA (Res- pirable par- ticulate mat- ter) | 1 mg/m3 (Aluminium) | ACGIH |
| Sulfamerazine | 127-79-7 | TŴA | OEB 2 (>= 100 < 1000 μg/m3) | Internal |

Components with workplace control parameters

| | 1000 μg/m3) | |
|------------------------------|--|--|
| Engineering measures : | Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. | |
| Personal protective equipmer | | |
| Respiratory protection : | If adequate local exhaust ventilation is not available or exp sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. | |
| Filter type : | Particulates type | |



| Version 2.2 | Revision Date: 2024/09/28 | SDS Number: 5939802-00009 | Date of last issue: 2023/09/30 Date of first issue: 2020/05/26 |
|----------------|-------------------------------------|--|---|
| | | | |
| | protection aterial | : Chemical-resis | stant gloves |
| Eye p | protection | If the work env mists or aeros Wear a facesh | lasses with side shields or goggles. /ironment or activity involves dusty conditions, ols, wear the appropriate goggles. hield or other full face protection if there is a rect contact to the face with dusts, mists, or |
| | and body protection ene measures | : If exposure to eye flushing sy ing place. When using de Wash contami The effective of engineering co appropriate de industrial hygio | or laboratory coat. chemical is likely during typical use, provide ystems and safety showers close to the work- o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | fine powder |
|---|---|--|
| Colour | : | White to light yellow |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | May form explosive dust-air mixture during processing, han- dling or other means. |
| Flammability (liquids) | : | Not applicable |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower | : | No data available |



| Versic 2.2 | | Revision Date: 2024/09/28 | | S Number: 9802-00009 | Date of last issue: 2023/09/30 Date of first issue: 2020/05/26 |
|---------------|----------------------|------------------------------|---|-------------------------|---|
| | | | | | |
| fl | lammat | pility limit | | | |
| V | /apour | pressure | : | Not applicable | |
| F | Relative | vapour density | : | Not applicable | |
| F | Relative | density | : | No data available |) |
| C | Density | | : | No data available |) |
| S | Solubilit Wate | y(ies) er solubility | : | practically insolu | ble |
| | Partition | coefficient: n- | : | Not applicable | |
| - | | hition temperature | : | No data available |) |
| C | Decomp | osition temperature | : | No data available |) |
| V | /iscosity Visco | y osity, kinematic | : | Not applicable | |
| E | Explosiv | e properties | : | Not explosive | |
| C | Dxidizin | g properties | : | The substance o | r mixture is not classified as oxidizing. |
| N | lolecul | ar weight | : | No data available | 2 |
| | Particle Particle | characteristics size | : | No data available | |

10. STABILITY AND REACTIVITY

| Reactivity Chemical stability Possibility of hazardous reac- tions | : | Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents. |
|---|---|--|
| Conditions to avoid | : | Heat, flames and sparks. Avoid dust formation. |
| Incompatible materials Hazardous decomposition products | : | Oxidizing agents No hazardous decomposition products are known. |

11. TOXICOLOGICAL INFORMATION

| Information on likely routes of | : | Inhalation |
|---------------------------------|---|--------------|
| exposure | | Skin contact |



| sion | Revision Date: 2024/09/28 | SDS Number: 5939802-00009 | Date of last issue: 2023/09/30 Date of first issue: 2020/05/26 |
|----------------|--|---|---|
| | | Ingestion Eye contac | t |
| Acute | e toxicity | | |
| Not cl | assified based on av | ailable information. | |
| Comp | oonents: | | |
| Kaoli | n: | | |
| | oral toxicity | : LD50 (Rat): | : > 5,000 mg/kg |
| Acute | dermal toxicity | : LD50 (Rat): | : > 5,000 mg/kg |
| Phtha | alylsulfathiazole: | | |
| | oral toxicity | Method: OE | female): > 2,000 mg/kg ECD Test Guideline 423 it: The substance or mixture has no acute oral to |
| Acute | dermal toxicity | Method: OE | : > 2,000 mg/kg ECD Test Guideline 402 it: The substance or mixture has no acute derma |
| Alum | inum hydroxide: | | |
| Acute | oral toxicity | Method: OE | : > 2,000 mg/kg ECD Test Guideline 423 it: The substance or mixture has no acute oral to |
| Acute | inhalation toxicity | Exposure ti Test atmos Assessmen tion toxicity | phere: dust/mist it: The substance or mixture has no acute inhala |
| Sulfa | merazine: | | |
| Acute | oral toxicity | : LD50 (Mou | se): 25,000 mg/kg |
| - | corrosion/irritation assified based on av | ailable information. | |
| Comp | ponents: | | |
| Kaoli | n: | | |
| Speci Metho | es od | | Guideline 404 |
| Resul | t | : No skin irrit | ation |



| Version | Revision Date: | SDS Number: | Date of last issue: 2023/09/30 |
|---------|----------------|---------------|---------------------------------|
| 2.2 | 2024/09/28 | 5939802-00009 | Date of first issue: 2020/05/26 |

Phthalylsulfathiazole:

| Species | : Rabb | it |
|---------|---------|----------------------|
| Method | : OECI | D Test Guideline 404 |
| Result | : No sk | kin irritation |

Aluminum hydroxide:

| Species | : | Rabbit |
|---------|---|-------------------------|
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Kaolin:

| Species | : | Rabbit |
|---------|---|-------------------|
| Result | : | No eye irritation |

Phthalylsulfathiazole:

| Species | : | Rabbit |
|---------|---|-------------------------|
| Result | : | No eye irritation |
| Method | : | OECD Test Guideline 405 |

Aluminum hydroxide:

| Species | : | Rabbit |
|---------|---|-------------------------|
| Result | : | No eye irritation |
| Method | : | OECD Test Guideline 405 |

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Aluminum hydroxide:

| Test Type | : | Maximisation Test |
|-----------------|---|-------------------------|
| Exposure routes | : | Skin contact |
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Result | : | negative |



| Version | Revision Date: | SDS Number: | Date of last issue: 2023/09/30 |
|---------|----------------|---------------|---------------------------------|
| 2.2 | 2024/09/28 | 5939802-00009 | Date of first issue: 2020/05/26 |

Germ cell mutagenicity

Not classified based on available information.

Components:

| Aluminum hydroxide: | |
|-------------------------|--|
| Genotoxicity in vitro : | Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative |
| | Test Type: Chromosome aberration test in vitro Result: positive Remarks: Based on data from similar materials |
| | Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: equivocal Remarks: Based on data from similar materials |
| | Test Type: in vitro micronucleus test Result: positive Remarks: Based on data from similar materials |
| Genotoxicity in vivo : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative |

Carcinogenicity

Not classified based on available information.

Components:

Aluminum hydroxide:

| Rat |
|--------------------------------------|
| inhalation (dust/mist/fume) |
| 86 weeks |
| negative |
| Based on data from similar materials |
| |

Reproductive toxicity

Not classified based on available information.

Components:

Aluminum hydroxide:

Effects on fertility

: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat



| Version 2.2 | Revision Date: 2024/09/28 | | OS Number: 39802-00009 | Date of last issue: 2023/09/30 Date of first issue: 2020/05/26 |
|----------------------|---|-----|---|--|
| | | | Result: negative | e: Ingestion Test Guideline 422 on data from similar materials |
| Effec ment | ts on foetal develop- | : | Test Type: Embry Species: Rat Application Route Result: negative | vo-foetal development e: Ingestion |
| | T - single exposure classified based on availa | ble | information | |
| STO | T - repeated exposure | | | |
| | lassified based on availa | ble | information. | |
| • | eated dose toxicity ponents: | | | |
| | ninum hydroxide: | | | |
| Spec NOA Appli | ies EL cation Route sure time od | : | Rat > 100 mg/kg Ingestion 364 Days OECD Test Guide Based on data fro | eline 426 om similar materials |
| | EL cation Route sure time | : | Rat > 0.2 mg/kg inhalation (dust/m 12 Months Based on data fro | nist/fume) om similar materials |
| - | ration toxicity classified based on availa | ble | information. | |
| 12. ECOL | OGICAL INFORMATION | 1 | | |
| Ecot | oxicity | | | |
| | ponents: | | | |
| Phth | alylsulfathiazole: | | | |
| | oxicology Assessment e aquatic toxicity | : | Toxic effects can | not be excluded |
| Chro | nic aquatic toxicity | : | Toxic effects can | not be excluded |
| | | | | |



| rsion 2 | Revision Date: 2024/09/28 | | OS Number: 39802-00009 | Date of last issue: 2023/09/30 Date of first issue: 2020/05/26 | |
|--|--|-----|---|---|--|
| | | | | | |
| Alum | inum hydroxide: | | | | |
| | ity to fish | : | LL50 (Salmo trutt Exposure time: 9 | a (brown trout)): > 100 mg/l 5 h | |
| | ity to daphnia and other ic invertebrates | : | EL50 (Daphnia m Exposure time: 4 | agna (Water flea)): > 100 mg/l 3 h | |
| Toxicity to algae/aquatic plants | | : | EL50 (Selenastrum capricornutum (green algae)): > 100 mg Exposure time: 96 h | | |
| Sulfa | merazine: | | | | |
| Toxic | ity to fish | : | LC50 (Morone sa Exposure time: 9 | xatilis (striped bass)): > 100 mg/l 5 h | |
| Toxicity to daphnia and other aquatic invertebrates | | : | EC50 (Daphnia n Exposure time: 4 | nagna (Water flea)): 227 mg/l 3 h | |
| | stence and degradabil ata available | ity | | | |
| Bioad | cumulative potential | | | | |
| Com | oonents: | | | | |
| Partiti | alylsulfathiazole: on coefficient: n- ol/water | : | log Pow: -2 | | |
| Sulfamerazine: Partition coefficient: n- octanol/water | | : | log Pow: 0.728 | | |
| | l ity in soil Ita available | | | | |
| | r adverse effects ata available | | | | |

| Disposal methods | | |
|------------------------|---|--|
| Waste from residues | : | Do not dispose of waste into sewer. |
| | | Dispose of in accordance with local regulations. |
| Contaminated packaging | : | Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. |



Version 2.2

Revision Date: 2024/09/28

SDS Number: 5939802-00009

Date of last issue: 2023/09/30 Date of first issue: 2020/05/26

14. TRANSPORT INFORMATION

International Regulations

| UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous | Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no |
|--|--|
| IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) | Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable |
| IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant | Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health



| ersion 2 | Revision Date: 2024/09/28 | SDS Number: 5939802-00009 | Date of last issue: 2023/09/30 Date of first issue: 2020/05/26 | |
|---------------|--|---------------------------------------|--|--|
| Haza | rdous substances that n | nust be registered | : Not applicable | |
| Gove stanc | - | . 74 of 2001 on the | Management of Hazardous and Toxic Sub- | |
| | rdous substances appro | oved for use | : Not applicable | |
| Prohi | bited substances | | : Not applicable | |
| Restr | icted substances | | : Not applicable | |
| | | of Trade No. 7 of 20 | 22 on Distribution and Control of Hazardo | |
| | rials of hazardous materials ol, Annex I | subject to distributio | n and : Not applicable | |
| | Type of hazardous materials subject to distribution and : Not applicable control, Annex II | | | |
| The c | components of this pro | oduct are reported i | in the following inventories: | |
| AICS | • | : not determined | - | |
| DSL | | : not determined | | |
| IECS | С | : not determined | | |
| . OTHE | R INFORMATION | | | |
| Revis | sion Date | : 2024/09/28 | | |
| Furth | er information | | | |
| | ces of key data used to ile the Safety Data t | | al data, data from raw material SDSs, OECD search results and European Chemicals Ager europa.eu/ | |
| Date | format | : yyyy/mm/dd | | |
| Full t | ext of other abbreviati | ons | | |
| ACGI ID OE | | | hreshold Limit Values (TLV) upational Exposure Limits | |
| | H / TWA EL / NAB | : 8-hour, time-we : Long term expo | eighted average osure limit | |
| | | | als; ANTT - National Agency for Transport Testing of Materials; bw - Body weight; CM | |

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;



| Version | Revision Date: | SDS Number: | Date of last issue: 2023/09/30 |
|---------|----------------|---------------|---------------------------------|
| 2.2 | 2024/09/28 | 5939802-00009 | Date of first issue: 2020/05/26 |

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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