Revision Date:

Version



Date of last issue: 23.03.2020

Etoricoxib Granulation Formulation

SDS Number:

| 5 | 16.10.2020 | 16712-00018 | Date of first issue: 29.09.2014 |
|--|---|--|---|
| ECTION | 1. PRODUCT AND CO | MPANY IDENTIFIC | ATION |
| | ict name ict code | | nulation Formulation GRANULATION |
| Manu | facturer or supplier's | details | |
| Comp Addre | eany name of supplier | | Septiembre No. 301 himilco Mexico 16090 |
| Telephone : Emergency telephone : E-mail address : | | : 52 55 5728444 : 215-631-6999 | |
| Reco | mmended use of the c | hemical and restrie | ctions on use |
| Reco | mmended use | : Pharmaceutica | l |
| ECTION | 2. HAZARDS IDENTIFI | CATION | |
| GHS | Classification | | |
| Repro | ductive toxicity | : Category 2 | |
| | fic target organ toxicity ated exposure (Oral) | : Category 2 (Ki | dney, Liver, Gastrointestinal tract) |
| | label elements | • | |
| Hazai | d pictograms | | |
| Signa | l Word | : Warning | |
| Hazaı | rd Statements | H373 May cau | ted of damaging the unborn child. se damage to organs (Kidney, Liver, Il tract) through prolonged or repeated exposur |
| | | Swallowed. | |
| Preca | utionary Statements | Prevention: P201 Obtain sp P202 Do not ha and understood P260 Do not bu | d. reathe dust. itective gloves/ protective clothing/ eye protecti |
| Preca | utionary Statements | Prevention: P201 Obtain sp P202 Do not ha and understood P260 Do not bi P280 Wear pro face protection Response: | andle until all safety precautions have been rea d. reathe dust. itective gloves/ protective clothing/ eye protecti |
| Preca | utionary Statements | Prevention: P201 Obtain sp P202 Do not ha and understood P260 Do not bi P280 Wear pro- face protection Response: P308 + P313 II | andle until all safety precautions have been rea d. reathe dust. otective gloves/ protective clothing/ eye protecti F exposed or concerned: Get medical advice/ |



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

Other hazards

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|-------------|-----------------------|
| Cellulose | 9004-34-6 | >= 30 -< 50 |
| Etoricoxib | 202409-33-4 | >= 20 -< 30 |

SECTION 4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical advice 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 | : | If in eyes, rinse well with water. Get medical attention if irritation develops and persists. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed | : | Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed. Contact with dust can cause mechanical irritation or drying of the skin. |
| Protection of first-aiders | : | Dust contact with the eyes can lead to mechanical irritation. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). |
| Notes to physician | : | Treat symptomatically and supportively. |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Water spray |
|------------------------------|---|------------------------|
| | | Alcohol-resistant foam |
| | | Carbon dioxide (CO2) |
| | | Dry chemical |



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| media | fic hazards during fire | : | concentrations, and potential dust exp | dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health. |
| Haza ucts | rdous combustion prod- | : | Carbon oxides Metal oxides Oxides of phosph Nitrogen oxides (I Sulfur oxides Chlorine compour | NOx) |
| Speci ods | fic extinguishing meth- | : | cumstances and t Use water spray t | measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do |
| | al protective equipment e-fighters | : | In the event of fire | e, wear self-contained breathing apparatus. rective equipment. |
| SECTION | 6. ACCIDENTAL RELE | AS | E MEASURES | |
| tive e | nal precautions, protec- quipment and emer- / procedures | : | | ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8). |
| Envir | onmental precautions | : | Retain and dispos | akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages |
| | ods and materials for inment and cleaning up | : | container for disp Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the Local or national disposal of this m employed in the c determine which n Sections 13 and 1 | dust in the air (i.e., clearing dust surfaces |

SECTION 7. HANDLING AND STORAGE

| Technical measures | : Static electricity may accumulate and ignite suspended dust |
|--------------------|---|
| | causing an explosion. |
| | Provide adequate precautions, such as electrical grounding |



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| Local/Total ventilation Advice on safe handling | | Use only with Do not breathed Do not swallow Avoid contact Avoid prolong Handle in according Handle in acco | N. |
| Hygie | ene measures | flushing syste place. When using d | chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. inated clothing before re-use. |
| Conc | litions for safe storage | : Keep in prope Store locked u | rly labeled containers. |
| Mate | rials to avoid | | vith the following product types: |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type | Control parame- | Basis |
|------------|-------------|------------|----------------------|-----------|
| | | (Form of | ters / Permissible | |
| | | exposure) | concentration | |
| Cellulose | 9004-34-6 | VLE-PPT | 10 mg/m ³ | NOM-010- |
| | | | - | STPS-2014 |
| | | TWA | 10 mg/m ³ | ACGIH |
| Etoricoxib | 202409-33-4 | TWA | 400 ug/m3 (OEB | Internal |
| | | | 2) | |

| Engineering measures : | Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. 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). |
|--|---|
| Personal protective equipmen | t |
| Respiratory protection : Filter type : Hand protection | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type |
| • | |



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| N | laterial | : Chemical-res | istant gloves | |
| Remarks | | on the concer time is not de For special ap resistance to gloves with th | Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not 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 | | | wing personal protective equipment: | |
| Skin and body protection : Select appropriate protective clothing bar resistance data and an assessment of the potential. | | riate protective clothing based on chemical ta and an assessment of the local exposure nust be avoided by using impervious protective | | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | powder |
|---|---|---|
| Color | : | No data available |
| Odor | : | No data available |
| Odor 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 | : | No data available |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapor pressure | : | No data available |
| Relative vapor density | : | No data available |
| Relative density | : | No data available |



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| Dens | ity | : | 1 g/cm ³ | |
| | Solubility(ies) Water solubility | | No data available | 9 |
| | ion coefficient: n- ol/water | : | No data available | 9 |
| 001011 | gnition temperature | : | No data available | 9 |
| Deco | Decomposition temperature | | No data available | 9 |
| Visco Vi | sity scosity, dynamic | : | No data available | 9 |
| Vi | scosity, kinematic | : | No data available | 9 |
| Explo | sive properties | : | Not explosive | |
| Oxidi | zing properties | : | The substance o | r mixture is not classified as oxidizing. |
| Moleo | cular weight | : | No data available | 9 |
| Partic | le size | : | No data available | 9 |

SECTION 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 proces handling or other means. Can react with strong oxidizing agents. | ssing, |
|---|---|--------|
| Conditions to avoid | Heat, flames and sparks. Avoid dust formation. | |
| Incompatible materials | Oxidizing agents | |
| Hazardous decomposition products | No hazardous decomposition products are known | • |

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method



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| <u>Co</u> | mponents: | | | |
| Ce | llulose: | | | |
| Ac | ute oral toxicity | : | LD50 (Rat): > 5,00 | 00 mg/kg |
| Ac | ute inhalation toxicity | : | LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere: | h |
| Ac | ute dermal toxicity | : | LD50 (Rabbit): > 2 | 2,000 mg/kg |
| Eto | oricoxib: | | | |
| Ac | ute oral toxicity | : | LD50 (Rat): 1,499 | mg/kg |
| | | | LD50 (Mouse): 1,4 | 499 mg/kg |
| | ute toxicity (other routes of ministration) | : | LD50 (Rat): 238 n Application Route | |
| | | | LD50 (Mouse): 59 Application Route | |
| <u>Co</u> Ete | t classified based on availal mponents: pricoxib: | ble | | |
| | ecies sult | : | Rabbit No skin irritation | |
| Se | rious eye damage/eye irrit | tati | on | |
| | t classified based on availal | ble | information. | |
| <u>Co</u> | mponents: | | | |
| | oricoxib: | | | |
| | ecies sult | : | Rabbit Mild eye irritation | |
| Re | spiratory or skin sensitiza | atio | n | |
| - | in sensitization t classified based on availal | ble | information. | |
| | spiratory sensitization t classified based on availal | ble | information. | |
| | mponents: | - | | |
| | pricoxib: | | | |
| Te: Ro | st Type utes of exposure ecies | :: | Local lymph node Skin contact Mouse | assay (LLNA) |



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| Assessment Result | | Did not cause sensitization on laboratory animals.negative | | | |
| | cell mutagenicity assified based on av | ailable information. | | | |
| Comp | oonents: | | | | |
| Cellu | lose: | | | | |
| Genot | toxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) Result: negative | | | |
| | | Test Type: In vitro mammalian cell gene mutation test Result: negative | | | |
| Genot | toxicity in vivo | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative | | | |
| Etorio | coxib: | | | | |
| Genot | toxicity in vitro | : Test Type: reverse mutation assay Result: negative | | | |
| | | Test Type: In vitro mammalian cell gene mutation test Test system: human lymphoblastoid cells Result: negative | | | |
| | | Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative | | | |
| | | Test Type: Alkaline elution assay Result: negative | | | |
| Genot | toxicity in vivo | : Test Type: Chromosomal aberration Species: Rat Cell type: Bone marrow Application Route: Oral Result: negative | | | |
| | | Test Type: Alkaline elution assay Species: Rat Application Route: Oral Result: negative | | | |
| Carci | nogenicity | | | | |
| | assified based on av | ailable information. | | | |
| Comp | oonents: | | | | |
| Cellu | lose: | | | | |
| Speci | es | : Rat | | | |



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|--------------|--|---|------|---|---|
| I | Applica Exposu Result | tion Route re time | : | Ingestion 72 weeks negative | |
| I | Etorico | xib: | | | |
| | Species Applica Exposu Result | tion Route | : | Rat, male and fen oral (gavage) 2 Years positive | nale |
| | Species Applica Exposu Result | tion Route | : | Mouse, male and oral (gavage) 2 Years negative | female |
| : | Suspec | luctive toxicity ted of damaging the u | nboi | n child. | |
| 9 | <u>Compo</u> | onents: | | | |
| | Cellulo | | | | |
| | Effects | on fertility | : | Species: Rat Application Route Result: negative | eneration reproduction toxicity study |
| I | Effects | on fetal development | : | Test Type: Fertility Species: Rat Application Route Result: negative | y/early embryonic development : Ingestion |
| I | Etorico | xib: | | | |
| | | on fertility | : | Species: Rat, fem Application Route | |
| | | | | Test Type: Fertilit Species: Rat, mal Application Route Result: negative | |
| I | Effects | on fetal development | : | Species: Rat Application Route Result: positive | : Oral |
| | | | | Species: Rabbit Application Route Result: positive | : Oral |
| | Reprod sessme | uctive toxicity - As- ent | : | Some evidence or animal experimen | f adverse effects on development, based on ts. |



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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Gastrointestinal tract) through prolonged or repeated exposure if swallowed.

Components:

Etoricoxib:

| Routes of exposure | : | Ingestion |
|--------------------|---|--|
| Target Organs | : | Kidney, Liver, Gastrointestinal tract |
| Assessment | : | May cause damage to organs through prolonged or repeated |
| | | exposure. |

Repeated dose toxicity

Components:

| Cellulose: Species NOAEL Application Route Exposure time | : Rat : >= 9,000 mg/kg : Ingestion : 90 Days |
|--|---|
| Etoricoxib: Species LOAEL Application Route Exposure time Target Organs | Rat 30 mg/kg oral (gavage) 27 Weeks Gastrointestinal tract, Kidney |
| Species NOAEL Application Route Exposure time Target Organs | : Rat : 30 mg/kg : oral (gavage) : 53 Weeks : Liver |
| Species NOAEL Application Route Exposure time Target Organs | : Dog : 50 mg/kg : oral (gavage) : 53 Weeks : Liver |
| Species LOAEL Application Route Exposure time Target Organs | Dog 200 mg/kg oral (gavage) 14 Weeks Gastrointestinal tract, Kidney |

Aspiration toxicity

Not classified based on available information.



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| Expe | rience with human exp | osu | ire | |
| <u>Comp</u> | oonents: | | | |
| Etoric | coxib: | | | |
| Ingest | tion | : | tension, Diarrhe heartburn, Naus | er respiratory tract infection, Headache, hypea, urinary tract infection, flu-like symptoms, sea, bronchitis, Dizziness, asthenia, Rash, gh, Abdominal pain, pharyngitis, Edema |
| CTION | 12. ECOLOGICAL INFO | DRN | IATION | |
| Ecoto | oxicity | | | |
| Comp | oonents: | | | |
| Cellu | lose: | | | |
| Toxici | ty to fish | : | Exposure time: | atipes (Japanese medaka)): > 100 mg/l 48 h d on data from similar materials |
| Etorio | coxib: | | | |
| Toxici | ty to fish | : | Exposure time: | les promelas (fathead minnow)): > 30 mg/l 96 h Test Guideline 203 |
| | ty to daphnia and other ic invertebrates | : | Exposure time: | magna (Water flea)): > 30 mg/l 48 h Test Guideline 202 |
| Toxici plants | ty to algae/aquatic | : | mg/l Exposure time: | irchneriella subcapitata (green algae)): > 1 72 h Test Guideline 201 |
| Toxici icity) | ty to fish (Chronic tox- | : | Exposure time: | ales promelas (fathead minnow)): 7.93 mg/ 32 d Test Guideline 210 |
| | ty to daphnia and other ic invertebrates (Chron- city) | : | Exposure time: | a magna (Water flea)): 0.75 mg/l 21 d Test Guideline 211 |
| Toxici | ty to microorganisms | : | | |
| | | | | |



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| Persi | stence and degrada | bility | |
| <u>Com</u> | oonents: | | |
| Cellu | lose: | | |
| Biode | gradability | : Result: Read | ily biodegradable. |
| Etori | coxib: | | |
| Biode | gradability | : Result: not ra Biodegradati Exposure tim | |
| Bioad | cumulative potentia | al | |
| Com | oonents: | | |
| Partiti | coxib: ion coefficient: n- ol/water | : log Pow: 2.3 | |
| Mobi | lity in soil | | |
| No da | ata available | | |
| Othe | r adverse effects | | |
| No da | ata available | | |

| Disposal m | ethods |
|------------|--------|
|------------|--------|

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

SECTION 14. TRANSPORT INFORMATION

| UNRTDG UN number Proper shipping name | : | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Etoricoxib) |
|--|---|--|
| Class | : | 9 |
| Packing group | | 111 |
| Labels | ÷ | 9 |
| IATA-DGR | | |
| UN/ID No. | : | UN 3077 |
| Proper shipping name | : | Environmentally hazardous substance, solid, n.o.s. (Etoricoxib) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | Miscellaneous |



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| a F Q | Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) Environmentally hazardous | :: | 956 956 yes | |
| ί | MDG-Code JN number Proper shipping name | : | UN 3077 ENVIRONMENTA N.O.S. (Etoricoxib) | ALLY HAZARDOUS SUBSTANCE, SOLID, |
| F | Class Packing group Labels EmS Code Marine pollutant | : | 9 III 9 F-A, S-F yes | |

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

Not applicable for product as supplied.

Domestic regulation

| NOM-002-SCT | |
|------------------|--|
| المالية بالمالية | |

| UN number | : | UN 3077 |
|----------------------|---|---|
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, |
| | | N.O.S. |
| | | (Etoricoxib) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| | | |

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

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



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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

| ACGIH NOM-010-STPS-2014 | USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting |
|--|--|
| ACGIH / TWA NOM-010-STPS-2014 / VLE- PPT | the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits 8-hour, time-weighted average Time weighted average limit value |

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; 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

| Sources of key data used to compile the Material Safety Data Sheet | : | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/ |
|--|---|--|
| Revision Date | : | 16.10.2020 |

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.



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