

Krytox[™] XHT-BDX

| Versior 5.0 | Revision Date: 11/06/2018 | SDS Ni 176404 | umber: 1-00005 | Date of last issue: 05/04/2018 Date of first issue: 06/22/2017 |
|----------------|------------------------------|---------------------------|---|--|
| SECTIO | ON 1. IDENTIFICATION | | | |
| Pr | oduct name | : Kryt | ox™ XHT-BD | х |
| Pr | oduct code | : D12 | 434928 | |
| SE | 0S-Identcode | : 130 | 000024309 | |
| Ма | anufacturer or supplier's | details | | |
| Co | ompany name of supplier | : The | Chemours Co | ompany FC, LLC |
| Ac | dress | | 7 Market Streen nington, DE 1 | et 9899 United States of America (USA) |
| Те | lephone | : 1-84 | 14-773-CHEM | (outside the U.S. 1-302-773-1000) |
| En | nergency telephone | 773 | | cy: 1-866-595-1473 (outside the U.S. 1-302- nsport emergency: +1-800-424-9300 (outside 27-3887) |
| Re | commended use of the c | hemical | and restriction | ons on use |
| Re | commended use | : Lub | ricant | |
| Re | estrictions on use | Do tion: inte writt | s involving imp rnal body fluid en agreemen | only. ell Chemours™ materials in medical applica- blantation in the human body or contact with s or tissues unless agreed to by Seller in a t covering such use. For further information, ur Chemours representative. |

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flulike symptoms in humans, especially when smoking contaminated tobacco.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|-----------|-----------------------|
| Boron Oxide | 1303-86-2 | >= 0.1 - < 1 |



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Actual concentration is withheld as a trade secret

| | DF0 | |
|---|------------|--|
| TION 4. FIRST AID MEASU | RES | |
| 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. |
| Most important symptoms and effects, both acute and delayed | : | Inhalation may provoke the following symptoms: Irritation Shortness of breath Skin contact may provoke the following symptoms: Irritation Discomfort Itching Redness Swelling of tissue Eye contact may provoke the following symptoms Irritation Lachrymation Redness Discomfort |
| Protection of first-aiders | : | No special precautions are necessary for first aid responder |
| Notes to physician | : | Treat symptomatically and supportively. |
| | | |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Not applicable Will not burn |
|---------------------------------------|---|--|
| Unsuitable extinguishing media | : | Not applicable Will not burn |
| Specific hazards during fire fighting | : | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod- ucts | : | Hydrogen fluoride carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates Carbon oxides Metal oxides |



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| | | | | Nitrogen oxides (N | NOx) |
| | Specific ods | 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 |
| | Special for fire- | protective equipment fighters | : | necessary. | ed breathing apparatus for firefighting if rective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | : | Follow safe handling advice and personal protective equipment recommendations. |
|---|---|---|
| Environmental precautions | : | Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

SECTION 7. HANDLING AND STORAGE

| 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 assessment Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : | Keep in properly labeled containers. |



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| | | | Store in accorda | nce with the particular national regulations. |
| Mate | rials to avoid | : | No special restric | ctions on storage with other products. |
| | ner information on stor- stability | : | No decompositio | n if stored and applied as directed. |

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 | |
| Boron Oxide | 1303-86-2 | TWA | 10 mg/m ³ | ACGIH |
| | | TWA | 10 mg/m ³ | NIOSH REL |
| | | TWA (total | 15 mg/m ³ | OSHA Z-1 |
| | | dust) | - | |

Occupational exposure limits of decomposition products

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|---------------------|-----------|-------------------------------------|--|-----------|
| Hydrofluoric acid | 7664-39-3 | TWA | 3 ppm 2.5 mg/m ³ | NIOSH REL |
| | | С | 6 ppm 5 mg/m ³ | NIOSH REL |
| | | TWA | 3 ppm | OSHA Z-2 |
| | | TWA | 0.5 ppm (Fluorine) | ACGIH |
| | | С | 2 ppm (Fluorine) | ACGIH |
| Carbonyl difluoride | 353-50-4 | TWA | 2 ppm | ACGIH |
| | | STEL | 5 ppm | ACGIH |
| | | ST | 5 ppm 15 mg/m³ | NIOSH REL |
| | | TWA | 2 ppm 5 mg/m ³ | NIOSH REL |
| Carbon dioxide | 124-38-9 | TWA | 5,000 ppm | ACGIH |
| | | STEL | 30,000 ppm | ACGIH |
| | | TWA | 5,000 ppm 9,000 mg/m ³ | OSHA Z-1 |
| | | TWA | 5,000 ppm 9,000 mg/m ³ | NIOSH REL |
| | | ST | 30,000 ppm 54,000 mg/m ³ | NIOSH REL |
| Carbon monoxide | 630-08-0 | TWA | 25 ppm | ACGIH |
| | | TWA | 35 ppm 40 mg/m ³ | NIOSH REL |



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| | | | | С | 200 ppm 229 mg/m ³ | NIOSH R |
| | | | | TWA | 50 ppm 55 mg/m ³ | OSHA Z- |
| Engir | neering measures | : | 10). Ensure adequ Minimize worl Dust formatio product. In ac limitations of o workplaces ha assessment. Particulates N dust, 5 mg/m3 Particles (inso | ate ventilation (place exposed of may be releved (dition to sub- concentration ave to be con Relevant lim lot Otherwise 3 - respirable oluble or poor mg/m3 - res | ardous compounds (s on, especially in confin sure concentrations. levant in the processir ostance-specific OELs ns of particulates in the nsidered in workplace its include: OSHA PE e Regulated of 15 mg fraction; and ACGIH orly soluble) Not Other spirable particles, 10 r | ned areas. ng of this , general ne air at risk L for /m3 - total TWA for wise |
| Perso | onal protective equip | ment | | | | |
| Respi | iratory protection | : | maintain vapo concentration unknown, app Follow OSHA use NIOSH/M by air purifyin hazardous ch supplied resp release, expo | or exposures s are above propriate respirator re ISHA approving respirators emical is limitiator if there sure levels a where air put | t ventilation is recommended recommended limits of piratory protection sho egulations (29 CFR 19 ved respirators. Protects against exposure to ited. Use a positive pro- e is any potential for un are unknown, or any of urifying respirators ma | l limits. Where or are ould be worn. 010.134) and ction provided any ressure air ncontrolled ther |
| Hand | protection | | | | | |
| Re | emarks | : | Wash hands I | oefore break | s and at the end of wo | orkday. |
| Eye p | protection | : | Wear the follo Safety glasse | | nal protective equipme | ent: |
| Skin a | and body protection | : | Skin should b | e washed af | ter contact. | |
| Hygie | ene measures | : | located close When using c | to the working on the | systems and safety sh ng place. ink or smoke. ing before re-use. | owers are |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | Grease |
|------------|---|--------|
| | | |

Color

: white



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| | | | | | |
| C | Ddor | | : | odorless | |
| C | Odor Th | nreshold | : | No data available |) |
| p | эΗ | | : | 7 | |
| Ν | Melting | point/freezing point | : | No data available |) |
| | nitial bo ange | oiling point and boiling | : | No data available | |
| F | -lash p | oint | : | Not applicable | |
| E | Evapora | ation rate | : | Not applicable | |
| F | lamma | ability (solid, gas) | : | Will not burn | |
| | | explosion limit / Upper bility limit | : | No data available | |
| | | explosion limit / Lower bility limit | : | No data available | |
| V | /apor p | pressure | : | Not applicable | |
| F | Relative | e vapor density | : | Not applicable | |
| F | Relative | e density | : | 1.9 (75 °F / 24 °C | ;) |
| S | Solubilit Wate | ty(ies) er solubility | : | insoluble | |
| | Partition octanol | n coefficient: n- /water | : | Not applicable | |
| A | Autoign | ition temperature | : | No data available |) |
| C | Decom | position temperature | : | 662 °F / 350 °C | |
| ٧ | /iscosit Visc | ty osity, kinematic | : | Not applicable | |
| E | Explosi | ve properties | : | Not explosive | |
| C | Dxidizir | ng properties | : | The substance or | mixture is not classified as oxidizing. |
| F | Particle | size | : | No data available |) |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | Not classified as a reactivity hazard. |
|--------------------|---|--|
| Chemical stability | : | Stable under normal conditions. |



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| | Possibi tions | lity of hazardous reac- | : | Hazardous decor temperatures. | nposition products will be formed at elevated |
| | Conditio | ons to avoid | : | None known. | |
| | Incomp | atible materials | : | None. | |
| | | ous decomposition p Il decomposition | orodi : | | de |

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

| Boron Oxide: | | |
|---------------------------|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 2,600 mg/kg Method: OECD Test Guideline 401 |
| Acute inhalation toxicity | : | LC50 (Rat): > 2.12 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: Based on data from similar materials |
| Acute dermal toxicity | : | LD50 (Rabbit): > 2,000 mg/kg Remarks: Based on data from similar materials |

Skin corrosion/irritation

Not classified based on available information.

Components:

| : Rabbit |
|--|
| : No skin irritation |
| : Based on data from similar materials |
| |

Serious eye damage/eye irritation

Not classified based on available information.



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| Com | ponents: | | | |
| Boro | n Oxide: | | | |
| Speci | ies | : | Rabbit | |
| Resu | lt | : | No eye irritation | |
| Metho | | : | Draize Test | |
| Rema | arks | : | Based on data fr | om similar materials |
| Resp | iratory or skin sens | itizatio | on | |

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Boron Oxide:

| Test Type | : | Buehler Test |
|---|---|--------------------------------------|
| Routes of exposure | : | Skin contact |
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Result | : | negative |
| Test Type Routes of exposure Species Method Result Remarks | : | Based on data from similar materials |

Germ cell mutagenicity

Not classified based on available information.

Components:

| Boron Oxide: | |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: negative Remarks: Based on data from similar materials |
| Genotoxicity in vivo | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials |

Carcinogenicity

Not classified based on available information.

Components:

| Boron Oxide: | | |
|--|---|--|
| Species Application Route Exposure time Result Remarks | Mouse Ingestion 103 weeks negative Based on data from similar materials | |



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| 5 11 | 1/00/2018 | 17 | 04041-00005 | | | | |
| IARC | | | | nt at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC. | | | |
| OSHA | | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. | | | | | |
| NTP | | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. | | | | | |
| - | tive toxicity ied based on avail | lable | information. | | | | |
| Product: Reproduct sessment | ive toxicity - As- | : | No toxicity to rep | roduction | | | |
| Compone | <u>nts:</u> | | | | | | |
| Boron Ox | | | | | | | |
| Effects on | fertility | : | Species: Rat Application Route Result: positive | e-generation reproduction toxicity study e: Ingestion on data from similar materials | | | |
| Effects on | fetal development | : : | Species: Rat Application Route Method: OECD 7 Result: positive | yo-fetal development e: Ingestion Fest Guideline 414 on data from similar materials | | | |
| Reproduct sessment | ive toxicity - As- | : | fertility, based or | of adverse effects on sexual function and a animal experiments., Clear evidence of on development, based on animal | | | |
| | gle exposure ied based on avail | labla | information | | | | |
| | eated exposure | lable | inionnation. | | | | |
| • | ied based on avail | lable | information. | | | | |
| | dose toxicity | abio | | | | | |
| <u>Compone</u> | - | | | | | | |
| Boron Ox | | | | | | | |
| Species NOAEL Application Exposure Remarks | ו Route | : | Rat 100 mg/kg Ingestion 2 y Based on data fr | om similar materials | | | |

| : | 100 mg/kg |
|---|--------------------------------------|
| : | Ingestion |
| : | 2 у |
| : | Based on data from similar materials |



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Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

| _ | Components: | | |
|------------|--|---|---|
| | Boron Oxide: | | |
| | Toxicity to fish | : | LC50: 74 mg/l Exposure time: 96 h Remarks: Based on data from similar materials |
| | Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia): 133 mg/l Exposure time: 48 h Remarks: Based on data from similar materials |
| | Toxicity to algae | : | EC50 (Phaeodactylum): 54 mg/l Exposure time: 72 h Remarks: Based on data from similar materials |
| | | | NOEC (Phaeodactylum): 27.9 mg/l Exposure time: 72 h Remarks: Based on data from similar materials |
| | Toxicity to fish (Chronic tox- icity) | : | NOEC (Pimephales promelas (fathead minnow)): 11.2 mg/l Exposure time: 32 d Remarks: Based on data from similar materials |
| | Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) | : | NOEC (Mysidopsis bahia (opossum shrimp)): 16.6 mg/l Exposure time: 28 d Method: OPPTS 850.1350 Remarks: Based on data from similar materials |
| | Toxicity to microorganisms | : | EC50: > 175 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials |
| | Persistence and degradabilit | у | |
| | No data available | | |
| | Bioaccumulative potential | | |
| _ | Components: | | |
| | Boron Oxide: | | |
| - 1 | | | |

| Bioaccumulation | : Species: Fish Bioconcentration factor (BCF): 1 - 22 Remarks: Based on data from similar materials |
|-----------------|---|
|-----------------|---|



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| | lity in soil | | |
| INO da | ita available | | |
| Other | adverse effects | | |
| | | | |
| | ta available | | |
| ECTION | ita available 13. DISPOSAL CONS osal methods | BIDERATIONS | |
| ECTION Dispo | 13. DISPOSAL CONS | | ccordance with local regulations. |

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

| SARA 311/312 Hazards | : | No SARA Hazards |
|----------------------|---|---|
| SARA 313 | : | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |



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US State Regulations

Pennsylvania Right To Know

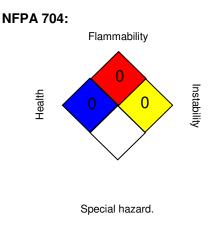
PFPE fluid Additive Trade secret Trade secret

California Prop. 65

WARNING: This product can expose you to chemicals including pentadecafluorooctanoic acid, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Further information



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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For further information contact the local Chemours office or nominated distributors. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Full text of other abbreviations

| ACGIH | | USA. ACGIH Threshold Limit Values (TLV) |
|-----------------|---|---|
| NIOSH REL | : | USA. NIOSH Recommended Exposure Limits |
| OSHA Z-1 | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants |
| OSHA Z-2 | : | USA. Occupational Exposure Limits (OSHA) - Table Z-2 |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| ACGIH / STEL | : | Short-term exposure limit |
| ACGIH / C | : | Ceiling limit |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday |



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| NIOS | SH REL / C | : Ceiling value no | ot be exceeded at any time. |

| NIOSH REL / C | : | Celling value not be exceeded at any tim |
|----------------|---|--|
| OSHA Z-1 / TWA | : | 8-hour time weighted average |
| OSHA Z-2 / TWA | : | 8-hour time weighted average |

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

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

: 11/06/2018

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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



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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.

US / Z8