

| Versi 4.0 | on | Revision Date: 11/10/2022 | | 0S Number: 83187-00010 | Date of last issue: 04/02/2022 Date of first issue: 02/15/2018 | | | | | |
|--------------|---------------------------|------------------------------|--------------------------|--|--|--|--|--|--|--|
| SECT | SECTION 1. IDENTIFICATION | | | | | | | | | |
| F | Product | t name | : | Krytox™ FPG 028 | 3 | | | | | |
| F | Product | t code | : | D15437882 | | | | | | |
| ç | SDS-Id | entcode | : | 130000107776 | | | | | | |
| г | Manufa | acturer or supplier's o | deta | ils | | | | | | |
| (| Compa | ny name of supplier | : | The Chemours Co | ompany FC, LLC | | | | | |
| I | Address | | : | 1007 Market Street Wilmington, DE 19801 United States of America (USA) | | | | | | |
| - | Telephone | | : | 1-844-773-CHEM (outside the U.S. 1-302-773-1000) | | | | | | |
| E | Emergency telephone | | : | Medical emergency: 1-866-595-1473 (outside the U.S. 1-302- 773-2000) ; Transport emergency: +1-800-424-9300 (outside the U.S. +1-703-527-3887) | | | | | | |
| F | Recommended use of the c | | hemical and restrictions | | ons on use | | | | | |
| F | Recom | mended use | : | Lubricant | | | | | | |
| F | Restrict | tions on use | : | tions involving imp internal body fluid written 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 the OSHA Hazard Communication Standard (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) |
|---------------|---------|-----------------------|
| | | |



Krytox™ FPG 028

| Version 4.0 | Revision Date: 11/10/2022 | | OS Number: 83187-00010 | Date of last issue: 04/02/2022 Date of first issue: 02/15/2018 |
|----------------|--|-------|--|---|
| | um nitrite al concentration is withh | eld a | 7632-00-0 s a trade secret | >= 0.1 - < 1 |
| SECTION | 4. FIRST AID MEASUR | RES | | |
| lf inha | aled | : | If inhaled, removed of the second sec | re to fresh air. ntion if symptoms occur. |
| In cas | se of skin contact | : | | and soap as a precaution. ntion if symptoms occur. |
| In cas | se of eye contact | : | | water as a precaution. ntion if irritation develops and persists. |
| lf swa | allowed | : | Get medical atte | NOT induce vomiting. ntion if symptoms occur. roughly with water. |
| | important symptoms effects, both acute and /ed | : | Irritation Lung edema Eye contact may Blurred vision Discomfort Lachrymation | rovoke the following symptoms: y provoke the following symptoms y provoke the following symptoms: |
| Prote | ection of first-aiders | : | No special preca | autions are necessary for first aid responders. |
| Notes | s to physician | : | Treat symptoma | tically 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 | : | Fluorine compounds Carbon oxides Hydrogen fluoride carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates |
| Specific extinguishing meth- ods | : | Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. |



Krytox™ FPG 028

| Version 4.0 | Revision Date: 11/10/2022 | | OS Number: 83187-00010 | Date of last issue: 04/02/2022 Date of first issue: 02/15/2018 |
|----------------|--|-----|---|--|
| | | | | o cool unopened containers. ged containers from fire area if it is safe to do |
| | ecial protective equipment fire-fighters | : | Wear self-contain necessary. Use personal prot | ed breathing apparatus for firefighting if ective equipment. |
| SECTIO | ON 6. ACCIDENTAL RELE | AS | E MEASURES | |
| tive | rsonal precautions, protec- e equipment and emer- ncy procedures | • : | | ing advice (see section 7) and personal pro- recommendations (see section 8). |
| En | vironmental precautions | : | Retain and dispos | akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages |
| | thods and materials for naterials for tainment and cleaning up | : | For large spills, pr ment to keep mat pumped, store red Clean up remainin bent. Local or national n sal of this materia ployed in the clea which regulations Sections 13 and 1 | a absorbent material. Tovide diking or other appropriate contain- erial from spreading. If diked material can be covered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dispo- I, as well as those materials and items em- nup of releases. You will need to determine are applicable. 5 of this SDS provide information regarding tional 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 | : | Do not breathe decomposition products. |
| | | Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : | Keep in properly labeled containers. Store in accordance with the particular national regulations. |
| Materials to avoid | : | No special restrictions on storage with other products. |



Krytox[™] FPG 028

| Version | Revision Date: | SDS Number: | Date of last issue: 04/02/2022 |
|---------|----------------|---------------|---------------------------------|
| 4.0 | 11/10/2022 | 2383187-00010 | Date of first issue: 02/15/2018 |
| | | | |

Further information on storage stability

Further information on stor- : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure limits of decomposition products

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|---------------------|-----------|-------------------------------------|--|-----------|
| Hydrogen fluoride | 7664-39-3 | TWA | 0.5 ppm (Fluorine) | ACGIH |
| | | С | 2 ppm (Fluorine) | ACGIH |
| | | С | 6 ppm 5 mg/m³ | NIOSH REL |
| | | TWA | 3 ppm 2.5 mg/m ³ | NIOSH REL |
| | | TWA | 3 ppm | OSHA Z-2 |
| Carbonyl difluoride | 353-50-4 | TWA | 2 ppm | ACGIH |
| | | STEL | 5 ppm | ACGIH |
| | | TWA | 2 ppm 5 mg/m ³ | NIOSH REL |
| | | ST | 5 ppm 15 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 | NIOSH REL |
| | | ST | 30,000 ppm 54,000 mg/m ³ | NIOSH REL |
| | | TWA | 5,000 ppm 9,000 mg/m ³ | OSHA Z-1 |
| Carbon monoxide | 630-08-0 | TWA | 25 ppm | ACGIH |
| | | TWA | 35 ppm 40 mg/m³ | NIOSH REL |
| | | С | 200 ppm 229 mg/m ³ | NIOSH REL |
| | | TWA | 50 ppm 55 mg/m³ | OSHA Z-1 |

Engineering measures

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

:



Krytox™ FPG 028

| Version 4.0 | Revision Date: 11/10/2022 | | DS Number: 883187-00010 | Date of last issue: 04/02/2022 Date of first issue: 02/15/2018 | |
|------------------------|------------------------------|------|--|---|--|
| Per | sonal protective equipn | nent | | | |
| Respiratory protection | | : | : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. When concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provide by air purifying respirators against exposure to any hazar-dous chemical is limited. Use a positive pressure air supplie respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection. | | |
| Har | nd protection | | | | |
| I | Remarks | : | Wash hands befo | re breaks and at the end of workday. | |
| Eye | protection | : | Wear the followin Safety glasses | g personal protective equipment: | |
| Skir | n and body protection | : | Skin should be wa | ashed after contact. | |
| Hyg | iene measures | : | eye flushing syste king place. When using do no | emical is likely during typical use, provide ems and safety showers close to the wor- ot eat, drink or smoke. ed clothing before re-use. | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | Grease |
|---|---|-------------------|
| Color | : | white |
| Odor | : | odorless |
| Odor Threshold | : | No data available |
| рН | : | 7 |
| Melting point/freezing point | : | 608 °F / 320 °C |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |



Krytox™ FPG 028

| Vers 4.0 | sion | Revision Date: 11/10/2022 | | S Number: 3187-00010 | Date of last issue: 04/02/2022 Date of first issue: 02/15/2018 |
|-------------|----------------------|---|---|-------------------------|---|
| | Flamma | ability (solid, gas) | : | Will not burn | |
| | | explosion limit / Upper bility limit | : | No data available | |
| | | explosion limit / Lower bility limit | : | No data available | |
| | Vapor p | pressure | : | Not applicable | |
| | Relative | e vapor density | : | Not applicable | |
| | Relative | e density | : | 1.89 - 1.93 (75 °F | F / 24 °C) |
| | Solubili Wat | ty(ies) er solubility | : | insoluble | |
| | Partition octanol | n coefficient: n- /water | : | Not applicable | |
| | Autoign | ition temperature | : | No data available |) |
| | Decom | position temperature | : | 572 °F / 300 °C | |
| | Viscosi Visc | ty osity, kinematic | : | Not applicable | |
| | Explosi | ve properties | : | Not explosive | |
| | Oxidizir | ng properties | : | The substance of | mixture is not classified as oxidizing. |
| | Particle | size | : | No data available |) |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | Not classified as a reactivity hazard. |
|---|---|---|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reac- tions | : | Hazardous decomposition products will be formed at elevated temperatures. |
| Conditions to avoid | : | None known. |
| Incompatible materials | : | None. |
| | | |

Hazardous decomposition products

| Thermal decomposition | : | Hydrogen fluoride Carbonyl difluoride Carbon dioxide |
|-----------------------|---|--|
| | | Carbon monoxide |



Krytox™ FPG 028

| /ersion 1.0 | Revision Date: 11/10/2022 | | Number: 3187-00010 | Date of last issue: 04/02/2022 Date of first issue: 02/15/2018 |
|-------------------------|---|-----------|---|---|
| SECTION | 11. TOXICOLOGICA | L INFOF | RMATION | |
| Skin o Ingest | nation on likely rout contact tion ontact | es of ex | posure | |
| | e toxicity assified based on ava | ilable in | formation. | |
| <u>Produ</u> Acute | <u>uct:</u> oral toxicity | | Acute toxicity e Aethod: Calcul | stimate: > 5,000 mg/kg ation method |
| Comp | oonents: | | | |
| Sodiu | ım nitrite: | | | |
| Acute | oral toxicity | : L | .D50 (Rat): 180 |) mg/kg |
| Acute | inhalation toxicity | E | C50 (Rat): 5.5 Exposure time: Fest atmosphe | 4 h |
| Not cl | corrosion/irritation assified based on ava ponents: | ilable in | formation. | |
| Sodiu | ım nitrite: | | | |
| Speci Metho Resul | bd | : 0 | Rabbit DECD Test Gu Io skin irritatio | |
| Serio | us eye damage/eye i | rritation | h | |
| | assified based on ava | | | |
| <u>Com</u> | oonents: | | | |
| Sodiu | ım nitrite: | | | |
| Speci Resul Metho | t | : 1 | Rabbit rritation to eye: DECD Test Gu | s, reversing within 21 days ideline 405 |
| Respi | iratory or skin sensi | ization | | |
| - | sensitization assified based on ava | ilable in | formation. | |
| - | iratory sensitization assified based on ava | ilable in | formation. | |
| | cell mutagenicity assified based on ava | ilable in | formation. | |



| ersion D | Revision Date: 11/10/2022 | SDS Number: 2383187-00010 | Date of last issue: 04/02/2022 Date of first issue: 02/15/2018 |
|----------------|--|---|--|
| Com | oonents: | | |
| Sodiu | um nitrite: | | |
| Geno | toxicity in vitro | : Test Type: Bac Result: positive | terial reverse mutation assay (AMES) |
| | | Test Type: In v Result: positive | itro mammalian cell gene mutation test |
| Geno | toxicity in vivo | cytogenetic ass Species: Mous | ute: Intraperitoneal injection |
| | | cytogenetic ass Species: Rat | ute: Intraperitoneal injection |
| II Coroi | | | |
| | nogenicity assified based on a | vailable information. | |
| | oonents: | | |
| - | ım nitrite: | | |
| Speci | | : Rat | |
| Applio | cation Route | : Ingestion | |
| Expos Resul | sure time | : 2 Years : negative | |
| Resu | l l | . negative | |
| IARC | Sodium r | | to humans 7632-00-0 s that result in endogenous nitrosation) |
| II OSH/ | | onent of this product pre A's list of regulated carcir | sent at levels greater than or equal to 0.1% is logens. |
| NTP | 5 | dient of this product pres as a known or anticipate | ent at levels greater than or equal to 0.1% is ed carcinogen by NTP. |
| - | oductive toxicity assified based on a | vailable information. | |
| <u>Com</u> | <u>oonents:</u> | | |
| Sodiu | ım nitrite: | | |
| | s on fertility | | p-generation reproduction toxicity study |
| Effect | | Species: Mous Application Ro Result: negativ | ute: Ingestion |

Revision Date:

SDS Number:



Date of last issue: 04/02/2022

Krytox™ FPG 028

Version

| ersion 0 | Revision Date: 11/10/2022 | | 83187-00010 | Date of first issue: 02/15/2018 |
|-----------------|---|-----|---|--|
| | | | Species: Rat Application Route Result: negative | : Ingestion |
| | F-single exposure lassified based on availa | ble | information | |
| | -repeated exposure | 0.0 | | |
| | lassified based on availa | ble | information. | |
| Repe | ated dose toxicity | | | |
| <u>Com</u> | ponents: | | | |
| Sodiu | um nitrite: | | | |
| Speci | | : | Rat | |
| NOAE | EL cation Route | ÷ | 10 mg/kg Ingestion | |
| | sure time | : | 2 y | |
| A | | | | |
| - | r ation toxicity lassified based on availa | hla | information | |
| | | | | |
| ECTION | 12. ECOLOGICAL INFO | DRN | IATION | |
| Ecoto | oxicity | | | |
| | - | | | |
| | ponents: | | | |
| | um nitrite: | | | |
| Toxic | ity to fish | : | LC50 (Oncorhync Exposure time: 96 | hus mykiss (rainbow trout)): 0.54 mg/l i h |
| Toxic | ity to daphnia and other | : | EC50 (Daphnia m | agna (Water flea)): 15.4 mg/l |
| | tic invertebrates | | Exposure time: 48 | 5 h |
| | | | Method: OECD Te | est Guideline 202 |
| Toxic plants | ity to algae/aquatic | : | | nus capricornutum (fresh water algae)): > |
| plants | | | 100 mg/l Exposure time: 72 | h. |
| | | | Method: OECD To | |
| | | | | |
| | | | NOEC (Scenedes | mus capricornutum (fresh water algae)): 10 |
| | | | mg/l | · · · · · · · · · · · · · · · · · · · |
| | | | , | h |
| Toxic | ity to fish (Chronic tox- | | mg/l Exposure time: 72 Method: OECD To | h est Guideline 201 |
| Toxic icity) | ity to fish (Chronic tox- | : | mg/l Exposure time: 72 Method: OECD To NOEC (Cyprinus of Exposure time: 30 | h est Guideline 201 carpio (Carp)): 21 mg/l d |
| | ity to fish (Chronic tox- | : | mg/l Exposure time: 72 Method: OECD To NOEC (Cyprinus of | h est Guideline 201 carpio (Carp)): 21 mg/l d |
| icity) Toxic | ity to daphnia and other | : | mg/l Exposure time: 72 Method: OECD To NOEC (Cyprinus of Exposure time: 30 | h est Guideline 201 carpio (Carp)): 21 mg/l d est Guideline 210 |
| icity) Toxic | ity to daphnia and other tic invertebrates (Chron- | : | mg/l Exposure time: 72 Method: OECD To NOEC (Cyprinus of Exposure time: 30 Method: OECD To | est Guideline 201 carpio (Carp)): 21 mg/l d est Guideline 210 chrimp): 9.86 mg/l |



Krytox[™] FPG 028

| Version 4.0 | Revision Date: 11/10/2022 | SDS Number: 2383187-00010 | Date of last issue: 04/02/2022 Date of first issue: 02/15/2018 | |
|----------------|------------------------------|--------------------------------------|---|--|
| Toxicit | y to microorganisms | : EC50: 281 mg/l Exposure time: 4 | 8 h | |
| Persis | tence and degradabil | lity | | |
| No dat | a available | | | |
| Bioaco | cumulative potential | | | |
| No dat | a available | | | |
| Mobili | ty in soil | | | |
| No dat | a available | | | |
| Other | adverse effects | | | |
| No dat | a available | | | |
| SECTION 1 | 3. DISPOSAL CONSI | DERATIONS | | |
| | | | | |
| Dispos | sal methods | | | |

| Waste from residues | : | Dispose of in accordance with local regulations. |
|------------------------|---|--|
| Contaminated packaging | : | 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

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

| UN/ID/NA number | : | UN 3077 |
|----------------------|---|--|
| Proper shipping name | : | Environmentally hazardous substance, solid, n.o.s. (Sodium nitrite) |
| Class | : | 9 |
| Packing group | : | |
| Labels | : | CLASS 9 |
| ERG Code | : | 171 |
| Marine pollutant | : | no |
| Remarks | : | THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE |
| | | SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS |
| | | THE REPORTABLE QUANTITY. |



| Version | Revision Date: | SDS Number: | Date of last issue: 04/02/2022 |
|---------|----------------|---------------|---------------------------------|
| 4.0 | 11/10/2022 | 2383187-00010 | Date of first issue: 02/15/2018 |

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

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ | Calculated product RQ |
|----------------|-----------|--------------|-----------------------|
| | | (lbs) | (lbs) |
| Sodium nitrite | 7632-00-0 | 100 | 20202 |

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.

US State Regulations

Pennsylvania Right To Know

| PFPE fluid | Trade secret |
|----------------|--------------|
| Fluoropolymer | Trade secret |
| PFPE fluid | Trade secret |
| Sodium nitrite | 7632-00-0 |

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 cancer, and 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. Note to User: This product is not made with PFOA nor is PFOA intentionally present in the product; however, it is possible that PFOA may be present as an impurity at background (environmental) levels.

Additional regulatory information

Sodium nitrite

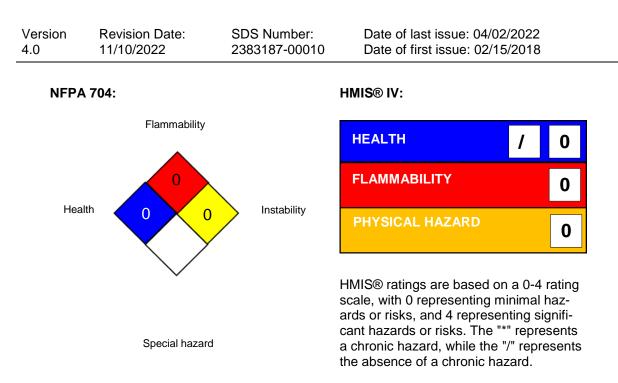
7632-00-0

The United States Environmental Protection Agency (USEPA) has established a Significant New Use Rule (SNUR) for one of the components in this product. See 40 CFR § 721.4740

SECTION 16. OTHER INFORMATION

Further information





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Chemours[™] and the Chemours Logo are trademarks of The Chemours Company. Before use read Chemours safety information.

For further information contact the local Chemours office or nominated distributors.

Full text of other abbreviations

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

AIIC - Australian Inventory of Industrial Chemicals; 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



Krytox[™] FPG 028

| Version | Revision Date: | SDS Number: | Date of last issue: 04/02/2022 |
|---------|----------------|---------------|---------------------------------|
| 4.0 | 11/10/2022 | 2383187-00010 | Date of first issue: 02/15/2018 |

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; 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

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

Revision Date : 11/10/2022

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 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