

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/21
2.0	2025/04/14	8401449-00008	Date of first issue: 2021/04/26

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Krytox™ XHT-S

SDS-Identcode : 130000031593

#### Manufacturer or supplier's details

Company : Chemours Vietnam Co., Ltd.

Address : Level 7, Friendship Tower, 31 Le Duan Street, Ben Nghe Ward,  
District 1  
Ho Chi Minh City Vietnam

Telephone : (84 8) 6288 3964

Emergency telephone number : 1800-577-721

#### Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : For industrial use only.  
Do not use or resell Chemours™ materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative.

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### 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.

#### Other hazards which do not result in classification

The thermal decomposition vapours of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version	Revision Date:	SDS Number:	Date of last issue:
2.0	2025/04/14	8401449-00008	2024/10/21
			Date of first issue: 2021/04/26

Chemical name	CAS-No.	Concentration (% w/w)
Calcium nitrite	13780-06-8	>= 0,1 -< 0,25

### 4. FIRST AID MEASURES

- |   |  |
|---|--|
| If inhaled  | : If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.   |
| In case of skin contact                                     | : Wash with water and soap as a precaution.<br>Get medical attention if symptoms occur.  |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.   |
| If swallowed  | : If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water.  |
| Most important symptoms and effects, both acute and delayed | : Inhalation may provoke the following symptoms:<br>Irritation<br>Lung oedema<br>Eye contact may provoke the following symptoms:<br>Blurred vision<br>Discomfort<br>Lachrymation<br>Skin contact may provoke the following symptoms:<br>Irritation<br>Redness<br>Inhalation may provoke the following symptoms:<br>Irritation<br>Shortness of breath |
| Protection of first-aiders                                  | : No special precautions are necessary for first aid responders.   |
| Notes to physician  | : Treat symptomatically and supportively.  |

### 5. FIREFIGHTING MEASURES

- |                                       |  |
|---------------------------------------|--|
| Suitable extinguishing media          | : Not applicable<br>Will not burn                            |
| Unsuitable extinguishing media        | : Not applicable<br>Will not burn                            |
| Specific hazards during fire-fighting | : Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod-            | : Hydrogen fluoride  |

# Krytox™ XHT-S



ucts	carbonyl fluoride potentially toxic fluorinated compounds aerosolized particulates Carbon oxides
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Personal precautions, protective equipment and emergency procedures	:	Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. 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 dyking or other appropriate containment to keep material from spreading. If dyked 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.

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version 2.0      Revision Date: 2025/04/14      SDS Number: 8401449-00008      Date of last issue: 2024/10/21  
Date of first issue: 2021/04/26

- 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.  
  
Do not breathe decomposition products.
- Conditions for safe storage : Keep in properly labelled containers.  
Store in accordance with the particular national regulations.
- Materials to avoid : No special restrictions on storage with other products.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components 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 parameters / Permissible concentration	Basis
Hydrofluoric acid	7664-39-3	TWA	0,1 mg/m3	VN OEL
		STEL	0,5 mg/m3	VN OEL
		TWA	0,5 ppm (Fluorine)	ACGIH
Carbonyl difluoride	353-50-4	C	2 ppm (Fluorine)	ACGIH
		TWA	5 mg/m3	VN OEL
		STEL	13 mg/m3	VN OEL
		TWA	2 ppm	ACGIH
Carbon dioxide	124-38-9	STEL	5 ppm	ACGIH
		TWA	9.000 mg/m3	VN OEL
		STEL	18.000 mg/m3	VN OEL
		TWA	5.000 ppm	ACGIH
Carbon monoxide	630-08-0	STEL	30.000 ppm	ACGIH
		TWA	20 mg/m3	VN OEL
		STEL	40 mg/m3	VN OEL
		TWA	25 ppm	ACGIH

- Engineering measures : Processing may form hazardous compounds (see section 10).

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version 2.0	Revision Date: 2025/04/14	SDS Number: 8401449-00008	Date of last issue: 2024/10/21 Date of first issue: 2021/04/26
----------------	------------------------------	------------------------------	---

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

### Personal protective equipment

Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type	:	Combined particulates, acidic gas/vapour and organic vapour type
Hand protection	:	
Remarks	:	Wash hands before breaks and at the end of workday.
Eye protection	:	Wear the following personal protective equipment: Safety glasses
Skin and body protection	:	Skin should be washed after contact.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grease
Colour	:	white
Odour	:	odourless
Odour Threshold	:	No data available
pH	:	7
Melting point/freezing point	:	320 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	Method: Pensky-Martens closed cup Not applicable

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version 2.0	Revision Date: 2025/04/14	SDS Number: 8401449-00008	Date of last issue: 2024/10/21 Date of first issue: 2021/04/26
----------------	------------------------------	------------------------------	---

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Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	1,89 - 1,93 (24 °C)
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	300 °C
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Particle characteristics Particle size	:	No data available

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### 10. STABILITY AND REACTIVITY

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

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/21
2.0	2025/04/14	8401449-00008	Date of first issue: 2021/04/26

---

### Hazardous decomposition products

Thermal decomposition : Hydrofluoric acid  
Carbonyl difluoride  
Carbon dioxide  
Carbon monoxide

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## 11. TOXICOLOGICAL INFORMATION

Exposure routes : 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

#### Components:

##### Calcium nitrite:

Acute oral toxicity : LD50 (Rat): 283 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### Calcium nitrite:

Species : Rabbit  
Method : Directive 67/548/EEC, Annex V, B.4.  
Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### Calcium nitrite:

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days  
Method : Directive 67/548/EEC, Annex V, B.5.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/21
2.0	2025/04/14	8401449-00008	Date of first issue: 2021/04/26

---

### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### Calcium nitrite:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### Calcium nitrite:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: positive  Test Type: Chromosome aberration test in vitro Result: positive Remarks: Based on data from similar materials  Test Type: In vitro mammalian cell gene mutation 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: Intraperitoneal injection Result: negative Remarks: Based on data from similar materials

### Carcinogenicity

Not classified based on available information.

#### Components:

##### Calcium nitrite:

Species	: Rat
Application Route	: Ingestion
Exposure time	: 2 Years
Result	: negative
Remarks	: Based on data from similar materials

### Reproductive toxicity

Not classified based on available information.



# SAFETY DATA SHEET



## Krytox™ XHT-S

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/21
2.0	2025/04/14	8401449-00008	Date of first issue: 2021/04/26

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### Components:

#### Calcium nitrite:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
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Effects on foetal development	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
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#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Repeated dose toxicity

### Components:

#### Calcium nitrite:

Species	:	Rat
NOAEL	:	130 mg/kg
Application Route	:	Ingestion
Exposure time	:	2 yr
Remarks	:	Based on data from similar materials

#### Aspiration toxicity

Not classified based on available information.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### Calcium nitrite:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 45 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
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Toxicity to algae/aquatic	:	ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
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# SAFETY DATA SHEET



## Krytox™ XHT-S

Version 2.0	Revision Date: 2025/04/14	SDS Number: 8401449-00008	Date of last issue: 2024/10/21 Date of first issue: 2021/04/26
----------------	------------------------------	------------------------------	---

plants		Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials  NOEC (Desmodesmus subspicatus (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to fish (Chronic toxicity)	:	NOEC (Cyprinus carpio (Carp)): > 1 mg/l Exposure time: 30 d Method: OECD Test Guideline 210 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Penaeid Shrimp): > 1 mg/l Exposure time: 80 d Remarks: Based on data from similar materials
Toxicity to microorganisms	:	EC50: > 100 mg/l Exposure time: 180 min Method: OECD Test Guideline 209 Remarks: Based on data from similar materials

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### 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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### International Regulations

UNRTDG

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/21
2.0	2025/04/14	8401449-00008	Date of first issue: 2021/04/26

---

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Environmentally hazardous : no

### IATA-DGR

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

### IMDG-Code

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : 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

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## 15. REGULATORY INFORMATION

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

Law on Chemicals No. 06/2007/QH12

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## 16. OTHER INFORMATION

Revision Date : 2025/04/14

Other information : Krytox™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.  
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.

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/21
2.0	2025/04/14	8401449-00008	Date of first issue: 2021/04/26

---

### Further information

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

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

Date format : yyyy/mm/dd

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
VN OEL : Vietnam. Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
ACGIH / C : Ceiling limit  
VN OEL / TWA : Time weighted average  
VN OEL / STEL : Short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

# SAFETY DATA SHEET



## Krytox™ XHT-S

Version	Revision Date:	SDS Number:	Date of last issue: 2024/10/21
2.0	2025/04/14	8401449-00008	Date of first issue: 2021/04/26

---

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.

VN / EN