

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Krytox™ XP 1A3

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 2025/05/22  |
| 4.0     | 2025/10/21     | 7712238-00009 | Date of first issue: 2020/12/22 |

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Krytox™ XP 1A3

SDS-Identcode : 130000024310

#### Manufacturer or supplier's details

Company : The Chemours Chemical (Shanghai) Co., Ltd.

Address : 9F, SCG Parkside, 868 Yinghua Road, Pudong New District  
201204, Shanghai, China

Telephone : 86 400 8056 528

Emergency telephone number : 86 532 8388 9090

E-mail address : SDS.ChinaPSR@chemours.com

Telefax : 86 21 2612 0862

#### 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.

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                  |
|------------|------------------|
| Appearance | : viscous liquid |
| Colour     | : colourless     |
| Odour      | : odourless      |

Not a hazardous substance or mixture.

#### 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.



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### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Not classified based on available information.

### Environmental hazards

Not classified based on available information.

### Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 3 %

### 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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

| Chemical name                                                                                                                    | CAS-No.      | Concentration (% w/w) |
|----------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|
| Poly(oxy<trifluoro(trifluoromethyl)ethylene>), omega-fluoro-alpha-<tetrafluoro-1 <<(hydroxy-phenoxyphosphinyl)oxy>methyl>ethyl>- | Not Assigned | >= 1 -< 10            |

## 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>Polymer fume fever<br>Skin contact may provoke the following symptoms:<br>Irritation<br>Discomfort<br>Itching<br>Redness<br>Eye contact may provoke the following symptoms |

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Irritation  
Lachrymation  
Redness  
Discomfort  
Inhalation may provoke the following symptoms:  
Irritation  
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  
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 products : Hydrogen fluoride  
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.

### 6. ACCIDENTAL RELEASE MEASURES

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.



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Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
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.

## 7. HANDLING AND STORAGE

### Handling

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.  
  
Do not breathe decomposition products.

Avoidance of contact : None.

### Storage

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.

Packaging material : Unsuitable material: None known.



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### 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<br>(Form of exposure) | Control parameters / Permissible concentration | Basis  |
|---------------------|-----------|----------------------------------|------------------------------------------------|--------|
| Hydrofluoric acid   | 7664-39-3 | MAC                              | 2 mg/m <sup>3</sup><br>(Fluorine)              | CN OEL |
|                     |           | TWA                              | 0.5 ppm<br>(Fluorine)                          | ACGIH  |
|                     |           | C                                | 2 ppm<br>(Fluorine)                            | ACGIH  |
| Carbonyl difluoride | 353-50-4  | PC-TWA                           | 5 mg/m <sup>3</sup>                            | CN OEL |
|                     |           | PC-STEL                          | 10 mg/m <sup>3</sup>                           | CN OEL |
|                     |           | TWA                              | 2 ppm                                          | ACGIH  |
|                     |           | STEL                             | 5 ppm                                          | ACGIH  |
| Carbon dioxide      | 124-38-9  | PC-TWA                           | 9,000 mg/m <sup>3</sup>                        | CN OEL |
|                     |           | PC-STEL                          | 18,000 mg/m <sup>3</sup>                       | CN OEL |
|                     |           | TWA                              | 5,000 ppm                                      | ACGIH  |
|                     |           | STEL                             | 30,000 ppm                                     | ACGIH  |
| Carbon monoxide     | 630-08-0  | PC-TWA                           | 20 mg/m <sup>3</sup>                           | CN OEL |
|                     |           | PC-STEL                          | 30 mg/m <sup>3</sup>                           | CN OEL |
|                     |           | MAC                              | 20 mg/m <sup>3</sup>                           | CN OEL |
|                     |           | MAC                              | 15 mg/m <sup>3</sup>                           | CN OEL |
|                     |           | TWA                              | 25 ppm                                         | ACGIH  |

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

**Eye/face protection** : Wear the following personal protective equipment:  
Safety glasses

**Skin and body protection** : Skin should be washed after contact.

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### Hand protection

Remarks : Wash hands before breaks and at the end of workday.

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

pH : 7

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : Method: Pensky-Martens closed cup  
does not flash

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Will not burn

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 1.89 - 1.93

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|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Solubility(ies)                        |                                                            |
| Water solubility                       | : insoluble                                                |
| Partition coefficient: n-octanol/water | : Not applicable                                           |
| Auto-ignition temperature              | : No data available                                        |
| Decomposition temperature              | : 350 °C                                                   |
| Viscosity                              |                                                            |
| Viscosity, kinematic                   | : No data available                                        |
| Explosive properties                   | : Not explosive                                            |
| Oxidizing properties                   | : The substance or mixture is not classified as oxidizing. |
| Particle characteristics               |                                                            |
| Particle size                          | : Not applicable                                           |

### 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.                                                                     |

#### Hazardous decomposition products

|                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Thermal decomposition | : Hydrofluoric acid<br>Carbonyl difluoride<br>Carbon dioxide<br>Carbon monoxide |
|-----------------------|---------------------------------------------------------------------------------|

### 11. TOXICOLOGICAL INFORMATION

|                 |                                                          |
|-----------------|----------------------------------------------------------|
| Exposure routes | : Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|-----------------|----------------------------------------------------------|

#### Acute toxicity

Not classified based on available information.



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### Components:

Poly(oxy<trifluoro(trifluoromethyl)ethylene>), omega-fluoro-alpha-<tetrafluoro-1 <<(hydroxyphe-noxyphosphinyl)oxy>methyl>ethyl>-

:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

### **Skin corrosion/irritation**

Not classified based on available information.

### Components:

Poly(oxy<trifluoro(trifluoromethyl)ethylene>), omega-fluoro-alpha-<tetrafluoro-1 <<(hydroxyphe-noxyphosphinyl)oxy>methyl>ethyl>-

:

Species : Rabbit  
Result : No skin irritation

### **Serious eye damage/eye irritation**

Not classified based on available information.

### Components:

Poly(oxy<trifluoro(trifluoromethyl)ethylene>), omega-fluoro-alpha-<tetrafluoro-1 <<(hydroxyphe-noxyphosphinyl)oxy>methyl>ethyl>-

:

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### Components:

Poly(oxy<trifluoro(trifluoromethyl)ethylene>), omega-fluoro-alpha-<tetrafluoro-1 <<(hydroxyphe-noxyphosphinyl)oxy>methyl>ethyl>-

:

Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

### **Germ cell mutagenicity**

Not classified based on available information.



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### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

Poly(oxy<trifluoro(trifluoromethyl)ethylene>), omega-fluoro-alpha-<tetrafluoro-1 <<(hydroxyphenoxyposphinyl)oxy>methyl>ethyl>-

:

### Ecotoxicology Assessment

Acute aquatic toxicity : Toxic effects cannot be excluded

Chronic aquatic toxicity : Toxic effects cannot be excluded

### 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.

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### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

|                           |                  |
|---------------------------|------------------|
| 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

Not regulated as a dangerous good

|                                          |                  |
|------------------------------------------|------------------|
| 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

Not regulated as a dangerous good

|                      |                  |
|----------------------|------------------|
| 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     | : no             |

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

Not applicable for product as supplied.

#### National Regulations

##### GB 6944/12268

Not regulated as a dangerous good

|                      |                  |
|----------------------|------------------|
| UN number            | : Not applicable |
| Proper shipping name | : Not applicable |
| Class                | : Not applicable |
| Subsidiary risk      | : Not applicable |
| Packing group        | : Not applicable |
| Labels               | : Not applicable |
| Marine pollutant     | : no             |



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### Special precautions for user

Not applicable

## 15. REGULATORY INFORMATION

### National regulatory information

#### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : This product is not listed in the catalogue of hazardous chemicals and it does not meet the definition of hazardous chemicals and its principles of determination.

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218) : Not listed

Hazardous Chemicals for Priority Management under SAWS : Not listed

Catalogue of Specially Controlled Hazardous Chemicals : Not listed

List of Explosive Precursors : Not listed

#### Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Not listed

#### Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import and Export : Not listed

#### Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

#### Regulations of Ozone Depleting Substances Management

List of Controlled Ozone Depleting Substances Import and Export : Not listed

List of Controlled Ozone Depleting Substances : Not listed

### Environmental Protection Law

List of Priority Controlled Chemicals : Not listed

List of Key Controlled New Pollutants : Not listed

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|                                              |              |
|----------------------------------------------|--------------|
| List of Toxic and Hazardous Water Pollutants | : Not listed |
| List of Toxic and Hazardous Air Pollutants   | : Not listed |
| List of Toxic and Hazardous Soil Pollutants  | : Not listed |

### Measures for the Administration of Non-Medical Use of Narcotic Drugs and Psychotropic Substances

|                                                                                         |              |
|-----------------------------------------------------------------------------------------|--------------|
| Catalogue of Controlled Narcotic Drugs and Psychotropic Substances with Non-Medical Use | : Not listed |
|-----------------------------------------------------------------------------------------|--------------|

### Measures for the Administration on Import and Export Licenses for Dual-Use Items and Technologies

|                                               |              |
|-----------------------------------------------|--------------|
| Catalogue for Dual-Use Items and Technologies | : Not listed |
|-----------------------------------------------|--------------|

## 16. OTHER INFORMATION

|               |              |
|---------------|--------------|
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|---------------|--------------|

|                   |                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other information | : Krytox™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.<br>Chemours™ and the Chemours Logo are trademarks of The Chemours Company.<br>Before use read Chemours safety information.<br>For further information contact the local Chemours office or nominated distributors. |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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)                                                         |
| CN OEL | : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents. |

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| ACGIH / TWA       | : 8-hour, time-weighted average                         |
| ACGIH / STEL      | : Short-term exposure limit                             |
| ACGIH / C         | : Ceiling limit                                         |
| CN OEL / PC-TWA   | : Permissible concentration - time weighted average     |
| CN OEL / PC-STEEL | : Permissible concentration - short term exposure limit |
| CN OEL / MAC      | : Maximum allowable concentration                       |



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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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; 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 - Organisation 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

### Disclaimer

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.

CN / EN

