

| Version<br>1.1 | Revision Date:<br>06.11.2018 | SDS Number:<br>2833975-00002 |   | Date of last issue: 30.05.2018<br>Date of first issue: 30.05.2018   |  |  |  |
|----------------|------------------------------|------------------------------|---|---|--|--|--|
| 1. PRODL       | JCT AND COMPANY ID           | ENT                          | IFICATION   |   |  |  |  |
| Produ          | uct name                     | :                            | Krytox™ GPL 2   | 27  |  |  |  |
| SDS-           | SDS-Identcode                |                              | 13000024328   |   |  |  |  |
| Manu           | ufacturer or supplier's o    | deta                         | ils   |   |  |  |  |
| Com            | pany                         | :                            | Chemours Neth   | erlands B.V.  |  |  |  |
| Addre          | Address :                    |                              |   | Baanhoekweg 22<br>3313 LA Dordrecht Netherlands   |  |  |  |
| Telep          | phone                        | :                            | +31-(0)-78-630-1011                                       |   |  |  |  |
| Emer           | rgency telephone numbe       | r :                          | +(44)-870-8200418 (CHEMTREC - Recommended)                |   |  |  |  |
| E-ma           | il address                   | :                            | sds-support@chemours.com                                  |   |  |  |  |
| Telef          | ax                           | :                            | +31-78-616373   | 7   |  |  |  |
| Reco           | ommended use of the c        | hem                          | ical and restrict   | ions on use   |  |  |  |
| Reco           | mmended use                  | :                            | Lubricant   |   |  |  |  |
| Restr          | Restrictions on use          |                              | tions involving i<br>internal body flu<br>written agreeme | se only.<br>esell Chemours <sup>™</sup> materials in medical applica-<br>mplantation in the human body or contact with<br>uids or tissues unless agreed to by Seller in a<br>ent covering such use. For further information,<br>your Chemours representative. |  |  |  |

## 2. HAZARDS IDENTIFICATION

| GHS Classification<br>Short-term (acute) aquatic<br>hazard | : | Category 3   |
|--|---|--|
| GHS label elements   |   |  |
| Hazard pictograms  | : | None   |
| Signal word  | : | None   |
| Hazard statements  | : | H402 Harmful to aquatic life.  |
| Precautionary statements                                   | : | <ul> <li>Prevention:</li> <li>P273 Avoid release to the environment.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste</li> </ul> |



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|------------------|--|---------------|--|---|-----------------------|
|                  |  |               | disposal plant.  |   |                       |
| The t<br>flu-lik | e symptoms in humans                                 | /apo<br>, esp | urs of fluorinated p<br>becially when smol   | i <b>on</b><br>plastics may cause polyn<br>king contaminated tobac              |                       |
|                  | OSITION/INFORMATIO                                   | N O           | Mixture  |   |                       |
|                  | ponents<br>nical name                                |               |  | CAS-No.   | Concentration (%      |
|                  | um nitrite   |               |  | 7632-00-0   | w/w)                  |
|                  | AID MEASURES   |               |  |   |                       |
| lf inh           | aled   | :             | If inhaled, remov<br>Get medical atte  | re to fresh air.<br>ntion if symptoms occur.                                    |                       |
| In ca            | se of skin contact                                   | :             | Wash with water and soap as a precaution.<br>Get medical attention if symptoms occur.        |   |                       |
| In ca            | se of eye contact                                    | :             |  | water as a precaution.<br>ntion if irritation develops                          | s and persists.       |
| lf swa           | allowed  | :             | Get medical atte   | NOT induce vomiting.<br>ntion if symptoms occur.<br>roughly with water.         |                       |
|                  | important symptoms<br>effects, both acute and<br>/ed | :             | Irritation<br>Lung oedema<br>Eye contact may<br>Blurred vision<br>Discomfort<br>Lachrymation | rovoke the following sym<br>provoke the following sy<br>provoke the following s | ,<br>vmptoms          |
| Prote            | ection of first-aiders                               | :             | No special preca   | utions are necessary for  | first aid responders. |
| Note             | s 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 |



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|-------------|---|---|-----|--|--|--|--|
|             | Specific fighting   | c hazards during fire-                      | :   | Exposure to comb   | oustion products may be a hazard to health.  |  |  |
|             | Hazardous combustion prod-<br>ucts  |   | :   | Hydrogen fluoride<br>carbonyl fluoride<br>potentially toxic fluorinated compounds<br>aerosolized particulates<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>Metal oxides  |  |  |  |
|             | Specific<br>ods   | e extinguishing meth-                       | :   | <ul> <li>Use extinguishing measures that are appropriate to local cumstances and the surrounding environment.</li> <li>Use water spray to cool unopened containers.</li> <li>Remove undamaged containers from fire area if it is safe so.</li> <li>Evacuate area.</li> </ul> |  |  |  |
|             | Special protective equipment for firefighters                                 |   | :   | Wear self-contained breathing apparatus for firefighting if nec-<br>essary.<br>Use personal protective equipment.  |  |  |  |
| 6. A        | CCIDEN  | ITAL RELEASE MEAS                           | SUF | RES  |  |  |  |
|             | Personal precautions, protec-<br>tive equipment and emer-<br>gency procedures |   | :   | Follow safe handling advice and personal protective equipment recommendations.   |  |  |  |
|             | Environ   | mental precautions                          | :   | : Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spilla<br>cannot be contained.                            |  |  |  |
|             |   | s and materials for<br>ment and cleaning up | :   | For large spills, pr<br>ment to keep mate<br>be pumped, store<br>Clean up remainin<br>bent.<br>Local or national r<br>posal of this mate<br>employed in the c<br>mine which regula<br>Sections 13 and 1  | absorbent material.<br>ovide dyking or other appropriate contain-<br>erial from spreading. If dyked material can<br>recovered material in appropriate container.<br>og materials from spill with suitable absor-<br>egulations may apply to releases and dis-<br>rial, as well as those materials and items<br>leanup of releases. You will need to deter-<br>tions are applicable.<br>5 of this SDS provide information regarding<br>tional requirements. |  |  |

## 7. HANDLING AND STORAGE

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

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|-----------------------------|---------------------------------------|----|--|--|--|
| Advi                        | ce on safe handling                   | :  | practice, based sessment   | dance with good industrial hygiene and safety<br>on the results of the workplace exposure as-<br>event spills, waste and minimize release to the |  |
| Conditions for safe storage |                                       | :  | Keep in properly labelled containers.<br>Store in accordance with the particular national regulations. |  |  |
| Mate                        | erials to avoid                       | :  | No special restri  | ctions on storage with other products.   |  |
|                             | her information on stor-<br>stability | :  | No decompositio  | on if stored and applied as directed.  |  |

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

| Components   | CAS-No.                   | Value type<br>(Form of<br>exposure)   | Control parame-<br>ters / Permissible<br>concentration                | Basis |  |  |  |
|--|---------------------------|---|---|-------|--|--|--|
| Hydrofluoric acid  | 7664-39-3                 | TWA   | 0.5 ppm<br>(Fluorine)   | ACGIH |  |  |  |
|  |                           | С   | 2 ppm<br>(Fluorine)   | ACGIH |  |  |  |
| Carbonyl difluoride  | 353-50-4                  | TWA   | 2 ppm   | ACGIH |  |  |  |
|  |                           | STEL  | 5 ppm   | ACGIH |  |  |  |
| Carbon dioxide   | 124-38-9                  | TWA   | 5,000 ppm   | ACGIH |  |  |  |
|  |                           | STEL  | 30,000 ppm  | ACGIH |  |  |  |
| Carbon monoxide  | 630-08-0                  | TWA   | 25 ppm  | ACGIH |  |  |  |
| Engineering measures   | Ensure ade<br>Minimize wo | quate ventilation   | dous compounds (see<br>, especially in confined<br>re concentrations. |       |  |  |  |
| Personal protective equip  |                           | _   |   |       |  |  |  |
| Respiratory protection   | tilation is pro           | Use respiratory protection unless adequate local exhaust ven-<br>tilation is provided or exposure assessment demonstrates that<br>exposures are within recommended exposure guidelines. |   |       |  |  |  |
| Filter type  | : Combined p<br>type      | : Combined particulates, acidic gas/vapour and organic vapoutype  |   |       |  |  |  |
| Hand protection<br>Remarks : Wash hands before breaks and at the end of workday. |                           |   |   |       |  |  |  |



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|--------------------------|------------------------------|--|---|--|--|--|
| Eye p                    | rotection                    | : Wear the follow Safety glasses   | ving personal protective equipment:                               |  |  |  |
| Skin and body protection |                              | : Skin should be washed after contact.   |   |  |  |  |
| Hygiene measures         |                              | <ul> <li>Ensure that eye flushing systems and safety showers are<br/>located close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> </ul> |   |  |  |  |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance  | : | Grease            |
|---|---|-------------------|
| Colour  | : | white             |
| Odour   | : | odourless         |
| Odour Threshold                                     | : | No data available |
| рН  | : | 7                 |
| Melting point/freezing point                        | : | 320 °C            |
| Initial boiling point and boiling range             | : | No data available |
| Flash point   | : | Not applicable    |
| Evaporation rate                                    | : | Not applicable    |
| Flammability (solid, gas)                           | : | Will not burn     |
| Upper explosion limit / Upper<br>flammability limit | : | No data available |
| Lower explosion limit / Lower<br>flammability limit | : | No data available |
| Vapour pressure                                     | : | Not applicable    |
| Relative vapour density                             | : | Not applicable    |
| Relative density                                    | : | 1.89 - 1.93       |
| Solubility(ies)<br>Water solubility                 | : | insoluble         |
| Partition coefficient: n-<br>octanol/water          | : | Not applicable    |
| Auto-ignition temperature                           | : | No data available |
| Decomposition temperature                           | : | 320 °C            |



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|----------------|--|-------|--|---|--|--|--|
|                | cosity<br>Viscosity, kinematic               | :     | Not applicable   |   |  |  |  |
| Exp            | plosive properties                           | :     | Not explosive  |   |  |  |  |
| Oxi            | idizing properties                           | :     | The substance o  | r mixture is not classified as oxidizing.                         |  |  |  |
| Par            | rticle size                                  | :     | No data available  |   |  |  |  |
| 10. STA        | BILITY AND REACTIVITY                        | ,     |  |   |  |  |  |
| Rea            | activity                                     | :     | Not classified as a reactivity hazard.   |   |  |  |  |
| Ch             | emical stability                             | :     | Stable under nor   | mal conditions.   |  |  |  |
| Pos<br>tior    | ssibility of hazardous reac-<br>is           | :     | Hazardous decor<br>temperatures.   | mposition products will be formed at elevated                     |  |  |  |
| Co             | nditions to avoid                            | :     | None known.  |   |  |  |  |
| Inc            | ompatible materials                          | :     | None.  |   |  |  |  |
|                |  |       | Carbonyl difluorio<br>Carbon dioxide<br>Carbon monoxide  |   |  |  |  |
| 11. TOX        | (ICOLOGICAL INFORMAT                         |       | l  |   |  |  |  |
|                | Information on likely routes of exposure     |       | Skin contact<br>Ingestion<br>Eye contact   |   |  |  |  |
|                | ute toxicity<br>t classified based on availa | ble i | nformation.  |   |  |  |  |
|                | oduct:                                       |       | A  |   |  |  |  |
| Acı            | ute oral toxicity                            | :     | Assessment: The icity  | substance or mixture has no acute oral tox-                       |  |  |  |
| Acu            | ute inhalation toxicity                      | :     | Acute toxicity estimate: > 10 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |   |  |  |  |
| <u>Co</u>      | mponents:                                    |       |  |   |  |  |  |
| So             | dium nitrite:                                |       |  |   |  |  |  |
|                | ute oral toxicity                            | :     | LD50 (Rat): 180 n  | ng/kg   |  |  |  |
|                |  |       | 6 / 11   |   |  |  |  |

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| Acute                | e inhalation toxicity        | : LC50 (Rat<br>Exposure<br>Test atmo    |   |   |
| Skin                 | corrosion/irritation         |   |   |   |
| Not c                | lassified based on ava       | lable information                       |   |   |
| <u>Com</u>           | ponents:                     |   |   |   |
| Sodi                 | um nitrite:                  |   |   |   |
| Spec<br>Meth<br>Resu | od                           | : Rabbit<br>: OECD Tes<br>: No skin irr | st Guideline 404<br>itation             |   |
| Serio                | ous eye damage/eye i         | ritation                                |   |   |
| Not c                | lassified based on ava       | lable information                       |   |   |
| <u>Com</u>           | ponents:                     |   |   |   |
| Sodi                 | um nitrite:                  |   |   |   |
| Spec                 |                              | : Rabbit                                |   |   |
| Meth<br>Resu         |                              |   | st Guideline 405                        |   |
| Resu                 | int.                         | . Initation it                          | eyes, reversing within 21 days          |   |
| Resp                 | biratory or skin sensit      | isation                                 |   |   |
| Skin                 | sensitisation                |   |   |   |
| Not c                | lassified based on ava       | lable information                       |   |   |
| Resp                 | biratory sensitisation       |   |   |   |
| Not c                | lassified based on ava       | lable information                       |   |   |
| Gern                 | n cell mutagenicity          |   |   |   |
| Not c                | lassified based on ava       | lable information                       |   |   |
| <u>Com</u>           | ponents:                     |   |   |   |
| Sodi                 | um nitrite:                  |   |   |   |
| Geno                 | otoxicity in vitro           | : Test Type                             | Bacterial reverse mutation assay (AMES) | ) |

| cytogenetic assay)<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Result: negative<br>Test Type: Mammalian erythrocyte micronucleus test (in viv<br>cytogenetic assay)<br>Species: Rat<br>Application Route: Intraperitoneal injection | Genotoxicity in vitro | Result: positive   |
|--|-----------------------|--|
| cytogenetic assay)<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Result: negative<br>Test Type: Mammalian erythrocyte micronucleus test (in viv<br>cytogenetic assay)<br>Species: Rat<br>Application Route: Intraperitoneal injection |                       |  |
| cytogenetic assay)<br>Species: Rat<br>Application Route: Intraperitoneal injection   | Genotoxicity in vivo  | Species: Mouse<br>Application Route: Intraperitoneal injection |
| Result: negative   |                       | Species: Rat   |



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|                |                           |                              |   |  |
| Carci          | inogenicity               |                              |   |  |
| Not c          | lassified based on av     | ailable information.         |   |  |
| Com            | ponents:                  |                              |   |  |
| Sodiu          | um nitrite:               |                              |   |  |
| Speed          | ioo                       | · Dot                        |   |  |

| Species           | : | Rat       |
|-------------------|---|-----------|
| Application Route | : | Ingestion |
| Exposure time     | : | 2 Years   |
| Result            | : | negative  |

### **Reproductive toxicity**

Not classified based on available information.

#### Components:

### Sodium nitrite:

| Effects on fertility               | : | Test Type: Two-generation reproduction toxicity study<br>Species: Mouse<br>Application Route: Ingestion<br>Result: negative |
|------------------------------------|---|---|
| Effects on foetal develop-<br>ment | : | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative                    |

#### STOT - single exposure

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### Repeated dose toxicity

#### **Components:**

#### Sodium nitrite:

| Species           | : | Rat       |
|-------------------|---|-----------|
| NOAEL             | : | 10 mg/kg  |
| Application Route | : | Ingestion |
| Exposure time     | : | 2 yr      |

#### Aspiration toxicity

Not classified based on available information.

### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### **Components:**

Sodium nitrite:



| kicity to fish<br>kicity to daphnia and other<br>uatic invertebrates<br>kicity to algae | :   | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.54 mg/l<br>Exposure time: 96 h<br>EC50 (Daphnia magna (Water flea)): 15.4 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>EC50 ( Scenedesmus capricornutum (fresh water algae)): =<br>100 mg/l<br>Exposure time: 72 h   |
|---|---|---|
| uatic invertebrates   | :   | Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>EC50 ( Scenedesmus capricornutum (fresh water algae)): ><br>100 mg/l  |
| kicity to algae   | :   | 100 mg/l  |
|   |   | Method: OECD Test Guideline 201   |
|   |   | NOEC ( Scenedesmus capricornutum (fresh water algae)):<br>100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201  |
| Factor (Acute aquatic tox-<br>y)  | :   | 1   |
| kicity to microorganisms  | :   | EC50: 281 mg/l<br>Exposure time: 48 h   |
| kicity to fish (Chronic tox-<br>y)  | :   | NOEC: 21 mg/l<br>Exposure time: 30 d<br>Species: Cyprinus carpio (Carp)<br>Method: OECD Test Guideline 210  |
| kicity to daphnia and other<br>uatic invertebrates (Chron-<br>oxicity)                  | :   | NOEC: 9.86 mg/l<br>Exposure time: 80 d<br>Species: Penaeid Shrimp   |
| r <b>sistence and degradabili</b><br>data available                                     | ty  |   |
| oaccumulative potential<br>data available   |   |   |
| <b>bility in soil</b><br>data available   |   |   |
| n <b>er adverse effects</b><br>data available   |   |   |
|   | y)<br>kicity to microorganisms<br>kicity to fish (Chronic tox-<br>y)<br>kicity to daphnia and other<br>uatic invertebrates (Chron-<br>oxicity)<br>rsistence and degradabili<br>data available<br>baccumulative potential<br>data available<br>bility in soil<br>data available<br>her adverse effects<br>data available | kicity to microorganisms :<br>kicity to fish (Chronic tox-<br>y)<br>kicity to daphnia and other :<br>uatic invertebrates (Chron-<br>oxicity)<br>rsistence and degradability<br>data available<br>baccumulative potential<br>data available<br>bility in soil<br>data available<br>her adverse effects<br>data available<br>POSAL CONSIDERATIONS |

| Waste from residues    | : | Dispose of in accordance with local regulations.   |
|------------------------|---|--|
| Contaminated packaging | : | Empty containers should be taken to an approved waste han-<br>dling site for recycling or disposal.<br>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

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### 15. REGULATORY INFORMATION

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

#### **16. OTHER INFORMATION**

| Other information :  | : | Krytox <sup>™</sup> and any associated logos are trademarks or copy-<br>rights of The Chemours Company FC, LLC.<br>Chemours <sup>™</sup> and the Chemours Logo are trademarks of The<br>Chemours Company.<br>Before use read Chemours safety information.<br>For further information contact the local Chemours office or<br>nominated distributors. |
|--|---|--|
| Further information<br>Sources of key data used to :<br>compile the Safety Data<br>Sheet | : | Internal technical data, data from raw material SDSs, OECD<br>eChem Portal search results and European Chemicals Agen-<br>cy, http://echa.europa.eu/   |
| Full text of other abbreviation  |   | USA. ACGIH Threshold Limit Values (TLV)  |
| ACGIH / TWA  | : | 8-hour, time-weighted average  |

ACGIH / STEL : Short-term exposure limit ACGIH / C : Ceiling limit

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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;

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IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

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.

AE / EN