

| Vers<br>7.1 | ion                 | Revision Date:<br>04/10/2019 |      | 0S Number:<br>54737-00036   | Date of last issue: 11/07/2018<br>Date of first issue: 02/27/2017  |  |  |  |  |
|-------------|---------------------|------------------------------|------|---|--|--|--|--|--|
| SEC         | TION 1              | . IDENTIFICATION             |      |   |  |  |  |  |  |
|             | Product name        |                              | :    | : Krytox™ AUT 2604  |  |  |  |  |  |
|             | Produc              | t code                       | :    | D15439241   |  |  |  |  |  |
|             | SDS-Id              | entcode                      | :    | 130000143517  |  |  |  |  |  |
|             | Manufa              | acturer or supplier's (      | deta | iils  |  |  |  |  |  |
|             | Compa               | ny name of supplier          | :    | The Chemours Co   | ompany FC, LLC   |  |  |  |  |
|             | Address             |                              | :    | 1007 Market Street<br>Wilmington, DE 19801 United States of America (USA)   |  |  |  |  |  |
|             | Telephone           |                              | :    | 1-844-773-CHEM (outside the U.S. 1-302-773-1000)  |  |  |  |  |  |
|             | 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) |  |  |  |  |  |
|             | Recom               | mended use of the c          | hen  | nical and restriction   | ons on use   |  |  |  |  |
|             | Recommended use     |                              | :    | Lubricant   |  |  |  |  |  |
|             | Restric             | tions on use                 | :    | tions involving imp<br>internal body fluid<br>written agreemen  | lsers only.<br>ell Chemours™ materials in medical applica-<br>blantation in the human body or contact with<br>s or tissues unless agreed to by Seller in a<br>t covering such use. For further information,<br>ur Chemours representative. |  |  |  |  |

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards

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

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

No hazardous ingredients



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|----------------|--|-----|--|---|--|--|--|
| SECTION        | 4. FIRST AID MEASUR                                  | RES |  |   |  |  |  |
| lf inh         | If inhaled   |     | : If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.                       |   |  |  |  |
| In ca          | In case of skin contact                              |     | Wash with water and soap as a precaution.<br>Get medical attention if symptoms occur.                |   |  |  |  |
| In ca          | In case of eye contact                               |     | Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists. |   |  |  |  |
| lf swa         | allowed  | :   | Get medical atter  | NOT induce vomiting.<br>tion if symptoms occur.<br>oughly with water. |  |  |  |
|                | important symptoms<br>effects, both acute and<br>red | :   | Polymer fume few<br>Skin contact may<br>Redness  | provoke the following symptoms:<br>provoke the following symptoms     |  |  |  |
| Prote          | ection of first-aiders                               | :   | No special preca   | utions are necessary for first aid responders.                        |  |  |  |
| Note           | s to physician                                       | :   | Treat symptomat  | cally and supportively.   |  |  |  |

# SECTION 5. FIRE-FIGHTING 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-<br>ucts             | : | Fluorine compounds<br>Carbon oxides<br>Hydrogen fluoride<br>carbonyl fluoride<br>potentially toxic fluorinated compounds<br>aerosolized particulates  |
| Specific extinguishing meth-<br>ods            | : | Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do<br>so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary.  |



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|                |   |   | Use personal prot   | ective equipment.  |  |  |  |  |  |
| SECTION        | SECTION 6. ACCIDENTAL RELEASE MEASURES  |   |   |  |  |  |  |  |  |
| tive e         | Personal precautions, protec-<br>tive equipment and emer-<br>gency procedures |   | Follow safe handling advice and personal protective equipment recommendations.  |  |  |  |  |  |  |
| Enviro         | Environmental precautions   |   | Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g., by containment or<br>oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages<br>cannot be contained. |  |  |  |  |  |  |
|                | ods and materials for<br>inment and cleaning up                               | : | For large spills, pr<br>containment to ke<br>can be pumped, s<br>container.<br>Clean up remainir<br>absorbent.<br>Local or national r<br>disposal of this ma<br>employed in the c<br>determine which r<br>Sections 13 and 1   | a absorbent material.<br>ovide diking or other appropriate<br>ep material from spreading. If diked material<br>tore recovered material in appropriate<br>ng materials from spill with suitable<br>egulations may apply to releases and<br>aterial, as well as those materials and items<br>leanup of releases. You will need to<br>egulations are applicable.<br>5 of this SDS provide information regarding<br>tional requirements. |  |  |  |  |  |

## SECTION 7. HANDLING AND STORAGE

| Technical measures                            | : | See Engineering measures under EXPOSURE<br>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<br>practice, based on the results of the workplace exposure<br>assessment<br>Take care to prevent spills, waste and minimize release to the<br>environment. |
| Conditions for safe storage                   | : | Keep in properly labeled containers.<br>Store in accordance with the particular national regulations.  |
| Materials to avoid                            | : | No special restrictions on storage with other products.  |
| Further information on stor-<br>age stability | : | No decomposition if stored and applied as directed.  |



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### 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<br>(Form of<br>exposure) | Control parame-<br>ters / Permissible<br>concentration | Basis     |
|---------------------|-----------|-------------------------------------|--|-----------|
| Hydrofluoric acid   | 7664-39-3 | TŴA                                 | 3 ppm<br>2.5 mg/m <sup>3</sup>                         | NIOSH REL |
|                     |           | С                                   | 6 ppm<br>5 mg/m³                                       | NIOSH REL |
|                     |           | TWA                                 | 3 ppm  | OSHA Z-2  |
|                     |           | 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     |
|                     |           | ST                                  | 5 ppm<br>15 mg/m <sup>3</sup>                          | NIOSH REL |
|                     |           | TWA                                 | 2 ppm<br>5 mg/m <sup>3</sup>                           | NIOSH REL |
| Carbon dioxide      | 124-38-9  | TWA                                 | 5,000 ppm  | ACGIH     |
|                     |           | STEL                                | 30,000 ppm   | ACGIH     |
|                     |           | TWA                                 | 5,000 ppm<br>9,000 mg/m <sup>3</sup>                   | OSHA Z-1  |
|                     |           | TWA                                 | 5,000 ppm<br>9,000 mg/m <sup>3</sup>                   | NIOSH REL |
|                     |           | ST                                  | 30,000 ppm<br>54,000 mg/m <sup>3</sup>                 | NIOSH REL |
| Carbon monoxide     | 630-08-0  | TWA                                 | 25 ppm   | ACGIH     |
|                     |           | TWA                                 | 35 ppm<br>40 mg/m <sup>3</sup>                         | NIOSH REL |
|                     |           | С                                   | 200 ppm<br>229 mg/m <sup>3</sup>                       | NIOSH REL |
|                     |           | TWA                                 | 50 ppm<br>55 mg/m <sup>3</sup>                         | OSHA Z-1  |

**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

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are



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|                             |                              | Follow<br>use NIC<br>by air p<br>hazardo<br>supplie<br>release<br>circums | vn, appropriate respiratory protection should be worn.<br>OSHA respirator regulations (29 CFR 1910.134) and<br>DSH/MSHA approved respirators. Protection provided<br>purifying respirators against exposure to any<br>bus chemical is limited. Use a positive pressure air<br>d respirator if there is any potential for uncontrolled<br>e, exposure levels are unknown, or any other<br>stance where air purifying respirators may not provide<br>ite protection. |  |  |  |  |  |
| Hand protection<br>Material |                              | : Nitrile r   | : Nitrile rubber   |  |  |  |  |  |
| Re                          | Remarks<br>Eye protection    |   | e gloves to protect hands against chemicals depending<br>concentration specific to place of work. For special<br>tions, we recommend clarifying the resistance to<br>als of the aforementioned protective gloves with the<br>nanufacturer. Wash hands before breaks and at the<br>workday. Breakthrough time is not determined for the<br>t. Change gloves often!  |  |  |  |  |  |
| Eye p                       |                              |   | ne following personal protective equipment:<br>glasses   |  |  |  |  |  |
| Skin                        | and body protection          | : Skin sh   | ould be washed after contact.  |  |  |  |  |  |
| Hygie                       | ene measures                 | located<br>When ι   | that eye flushing systems and safety showers are<br>close to the working place.<br>using do not eat, drink or smoke.<br>contaminated 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 | : | 608 °F / 320 °C<br>No data available |
| Flash point                             | : | Not applicable                       |
| Evaporation rate                        | : | No data available                    |

# SAFETY DATA SHEET



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|----------|--|---|--|---|
| Flamma   | ability (solid, gas)   | : | Not applicable   |   |
| Flamma   | ability (liquids)  | : | Will not burn  |   |
|          |  | : | No data available  |   |
|          |  | : | No data available  |   |
| Vapor p  | pressure   | : | No data available  | )   |
| Relative | e vapor density  | : | No data available  | 9   |
| Relative | e density  | : | No data available  | )   |
|          |  | : | insoluble  |   |
|          |  | : | Not applicable   |   |
| Autoign  | ition temperature  | : | No data available  | )   |
| Decom    | position temperature   | : | No data available  |   |
|          |  | : | No data available  | )   |
| Explosiv | ve properties  | : | Not explosive  |   |
| Oxidizir | ng properties  | : | The substance of   | r mixture is not classified as oxidizing.   |
| Particle | size   | : | Not applicable   |   |
|          | Flamma<br>Flamma<br>Upper e<br>flamma<br>Lower e<br>flamma<br>Vapor p<br>Relative<br>Relative<br>Solubilit<br>Wato<br>Partition<br>octanol,<br>Autoign<br>Decomp<br>Viscosit<br>Visc<br>Explosit<br>Oxidizir |   | 04/10/2019135Flammability (solid, gas):Flammability (liquids):Upper explosion limit / Upper:flammability limit:Lower explosion limit / Lower:flammability limit:Vapor pressure:Relative vapor density:Relative density:Solubility(ies):Water solubility:Partition coefficient: n-<br>octanol/water:Autoignition temperature:Viscosity<br>Viscosity, kinematic:Explosive properties:Oxidizing properties: | 04/10/20191354737-00036Flammability (solid, gas):Not applicableFlammability (liquids):Will not burnUpper explosion limit / Upper:No data availableflammability limit:No data availableLower explosion limit / Lower:No data availableflammability limit:No data availableVapor pressure:No data availableRelative vapor density:No data availableRelative density:No data availableSolubility(ies):insolubleWater solubility:insolublePartition coefficient: n-<br>octanol/water:No data availableDecomposition temperature:No data availableViscosity<br>Viscosity, kinematic:No data availableExplosive properties:Not explosiveOxidizing properties:The substance or |

## SECTION 10. STABILITY AND REACTIVITY

| Reactivity                              |   | Not classified as a reactivity hazard.                                    |
|---|---|---|
| Chemical stability                      | : | Stable under normal conditions.   |
| Possibility of hazardous reac-<br>tions | : | 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 |
|-----------------------|---|--|
|                       |   | Carbon dioxide                           |
|                       |   | Carbon monoxide                          |

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### **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.

### SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

No data available



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| . I                        | 04/10/2019                                       | 10     | 354737-00036               |  |
| Persi                      | stence and degradal                              | bility |                            |  |
| No da                      | ata available                                    |        |                            |  |
|                            | ccumulative potentia                             | ıl     |                            |  |
|                            | ata available                                    |        |                            |  |
|                            | <b>lity in soil</b><br>ata available             |        |                            |  |
|                            | r adverse effects                                |        |                            |  |
|                            | ata available                                    |        |                            |  |
| FCTION                     | 13. DISPOSAL CON                                 | SIDE   | RATIONS                    |  |
|                            |  |        |                            |  |
| Disp                       | osal methods                                     |        |                            |  |
| Wast                       | e from residues                                  | :      | Dispose of in a            | ccordance with local regulations.                                    |
| Conta                      | aminated packaging                               | :      |                            | rs should be taken to an approved waste                              |
|                            |  |        |                            | r recycling or disposal.<br>specified: Dispose of as unused product. |
|                            |  |        |                            |  |
| ECTION                     | 14. TRANSPORT IN                                 | FORM   | IATION                     |  |
|                            |  |        |                            |  |
| Inter                      | national Regulations                             | i      |                            |  |
| UNR <sup>-</sup><br>Not re | <b>TDG</b><br>egulated as a dangero              | ous go | od                         |  |
|                            | -DGR   |        |                            |  |
|                            | egulated as a dangero                            | ius go | od                         |  |
| -                          | <b>à-Code</b><br>egulated as a dangero           | ous go | od                         |  |
|                            | sport in bulk accordi<br>pplicable for product a | •      |                            | RPOL 73/78 and the IBC Code  |
|                            |  |        |                            |  |

#### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

#### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity** This material does not contain any components with a section 302 EHS TPQ.

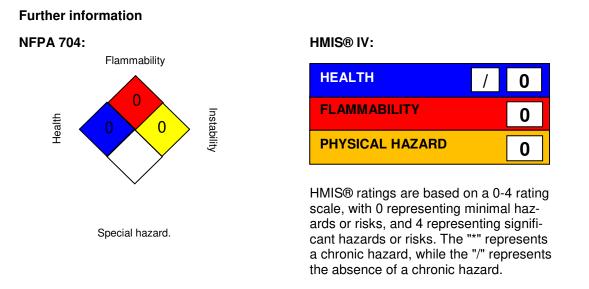
## SARA 311/312 Hazards : No SARA Hazards



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| SARA           | 313                          | known CAS nu                 | bes not contain any chemical components with<br>mbers that exceed the threshold (De Minimis)<br>established by SARA Title III, Section 313. |
| US Sta         | te Regulations               |                              |   |
| Penns          | ylvania Right To Kno         | w                            |   |
|                | PFPE fluid                   |                              | Trade secret  |
|                | Fluoropolymer                |                              | Trade secret  |
|                | PFPE fluid                   |                              | Trade secret  |
| Califor        | nia Prop. 65                 |                              |   |

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

## SECTION 16. OTHER INFORMATION



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

| Full text of ot | her abbreviations |
|-----------------|-------------------|
|-----------------|-------------------|

| ACGIH     | : | USA. ACGIH Threshold Limit Values (TLV)  |
|-----------|---|--|
| NIOSH REL | : | USA. NIOSH Recommended Exposure Limits   |
| OSHA Z-1  | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| OSHA Z-2  | : | USA. Occupational Exposure Limits (OSHA) - Table Z-2                             |



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|------------------------------|---------------------------|--|--|---|--|--|--|
|                              | H / TWA                   |  |  | hted average  |  |  |  |
| ACGIH / STEL                 |                           |  | : Short-term exposure limit  |   |  |  |  |
| ACGIH / C<br>NIOSH REL / TWA |                           |  | <ul> <li>Ceiling limit</li> <li>Time-weighted average concentration for up to a 10-hour</li> </ul> |   |  |  |  |
|                              |                           |  | workday during a 40-hour workweek  |   |  |  |  |
| NIOSH REL / ST               |                           | : STEI                                       | STEL - 15-minute TWA exposure that should not be exceeded  |   |  |  |  |
|                              |                           |  | at any time during a workday   |   |  |  |  |
| NIOS                         | H REL / C                 | : Ceiling value not be exceeded at any time. |  |   |  |  |  |
| OSHA                         | XZ-1 / TWA                | : 8-ho                                       | 8-hour time weighted average   |   |  |  |  |
| OSHA                         | X Z-2 / TWA               | : 8-ho                                       | ur time weigh  | ted average   |  |  |  |
|                              |                           |  |  |   |  |  |  |

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

| Sources of key data used to<br>compile the Material Safety<br>Data 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/ |
|--|---|--|
|--|---|--|

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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



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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