

according to Regulation (EC) No. 1907/2006

# Coolspheric N40

| Version | Revision Date: | SDS Number: | Print Date: 21.02.2022          |
|---------|----------------|-------------|---------------------------------|
| 2.0     | 02.12.2019     | 10200000213 | Date of first issue: 27.03.2014 |

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Coolspheric N40

Product code : 027035G60

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

#### **1.3 Details of the supplier of the safety data sheet**

| Company  | : ECKART GmbH<br>Guentersthal 4<br>91235 Hartenstein |
|--|--|
| Telephone  | : +499152770   |
| Telefax  | : +499152777008                                      |
| E-mail address of person responsible for the SDS | : msds.eckart@altana.com                             |

#### **1.4 Emergency telephone number**

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to GHS.

| Information concerning particular  | : Please refer to our website for further important |
|------------------------------------|---|
| hazards for human and environment: | safety instructions for handling aluminium powder:  |

http://www.eckart.net/fileadmin/eckart/Service/GDA \_Alupulver\_Safety\_engl.pdf

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

| Substance name                  | : | aluminium powder (stabilised) |
|---------------------------------|---|-------------------------------|
| EC-No.                          | : | 231-072-3                     |
| Hazardous components<br>Remarks | : | No hazardous ingredients      |

# **SECTION 4: First aid measures**

| 4.1 Description of first aid measures |   |  |  |  |  |  |
|---------------------------------------|---|--|--|--|--|--|
| General advice                        | : | Move the victim to fresh air.  |  |  |  |  |
|                                       |   | No hazards which require special first aid measures.   |  |  |  |  |
| If inhaled                            | : | If unconscious, place in recovery position and seek medical advice.                              |  |  |  |  |
|                                       |   | If symptoms persist, call a physician.   |  |  |  |  |
| In case of skin contact               | : | Wash off immediately with soap and plenty of water.  |  |  |  |  |
| In case of eye contact                | : | Remove contact lenses.   |  |  |  |  |
|                                       |   | If eye irritation persists, consult a specialist.  |  |  |  |  |
| If swallowed                          | : | Do not give milk or alcoholic beverages.   |  |  |  |  |
|                                       |   | Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician. |  |  |  |  |

# **4.2 Most important symptoms and effects, both acute and delayed** None known.

**4.3 Indication of any immediate medical attention and special treatment needed** This information is not available.

# **SECTION 5: Firefighting measures**

| 5.1 Extinguishing media      |   |   |
|------------------------------|---|---|
| Suitable extinguishing media | : | Dry sand<br>Special powder against metal fire |
| Unsuitable extinguishing     | : | ABC powder                                    |



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|---|---------------------------|----------|---|---|
| media   |                           |          | Carbon dioxide (0<br>Water<br>Foam  | 02)   |
| 5.2 Special hazards arising from<br>Specific hazards during<br>firefighting |                           | the<br>: | e substance or mixture<br>Contact with water liberates extremely flammable gas<br>(hydrogen). |   |
| 5.3 Advice  | for firefighters          |          |   |   |
| Special protective equipment for firefighters                               |                           | :        | Wear self-contain necessary.  | ed breathing apparatus for firefighting if  |
| Furthe  | r information             | :        | Use extinguishing   | are for chemical fires.<br>I measures that are appropriate to local<br>d the surrounding environment. |

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | : | Use personal protective equipment.<br>Evacuate personnel to safe areas.<br>Avoid dust formation. |
|----------------------|---|--|
|                      |   |  |

#### **6.2 Environmental precautions**

#### 6.3 Methods and material for containment and cleaning up

 

 Methods for cleaning up
 : Use mechanical handling equipment. Do not use a vacuum cleaner.

 Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

# **SECTION 7: Handling and storage**

| 7.1 Precautions for safe handling |   |  |  |  |  |
|-----------------------------------|---|--|--|--|--|
|                                   | Avoid creating dust.<br>Routine housekeeping should be instituted to ensure that<br>dusts do not accumulate on surfaces.<br>Keep away from heat and sources of ignition.<br>Do not smoke. |  |  |  |  |
|                                   |   |  |  |  |  |

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|-----|--|----------------------------------|-----------|---|---|
|     |  |                                  |           |   | ection see section 8.<br>and drinking should be prohibited in the   |
|     | Advice on protection against fire and explosion                                      |                                  | :         | : During processing, dust may form explosive mixture in<br>Take measures to prevent the build up of electrostation<br>Earthing of containers and apparatuses is essential. In<br>explosion-proof equipment. When transferring from on<br>container to another apply earthing measures and us<br>conductive hose material. |   |
|     |  |                                  |           | Normal measures   | s for preventive fire protection.   |
|     | Hygien   | e measures                       | :         | General industria   | hygiene practice.   |
| 7.2 | 7.2 Conditions for safe storage,<br>Requirements for storage<br>areas and containers |                                  | incl<br>: | <b>luding any incompatibilities</b><br>Reaction with water liberates extremely flammable gas<br>(hydrogen) Store in original container. Keep containers tig<br>closed in a cool, well-ventilated place. Keep container clo<br>when not in use. Keep away from sources of ignition - No<br>smoking.                        |   |
|     |  |                                  |           |   | ions / working materials must comply with safety standards.   |
|     |  | r information on<br>e conditions | :         | Protect from hum  | idity and water.  |
|     | Advice   | on common storage                | :         | Never allow prod<br>storage.<br>Keep away from  | ther with oxidizing and self-igniting products.<br>uct to get in contact with water during<br>oxidizing agents, strongly alkaline and<br>erials in order to avoid exothermic reactions. |
|     |  | r information on<br>e stability  | :         | No decomposition  | n if stored and applied as directed.  |

#### 7.3 Specific end use(s)

This information is not available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# **Occupational Exposure Limits**

| Components                       | CAS-No.   | Value type (Form | Control parameters | Basis   |  |
|----------------------------------|---|------------------|--------------------|---------|--|
|                                  |   | of exposure)     |                    |         |  |
| aluminium powder<br>(stabilised) | 7429-90-5   | TWA (Inhalable)  | 10 mg/m3           | GB EH40 |  |
| Further information              | The COSHH definition of a substance hazardous to health includes dust of<br>any kind when present at a concentration in air equal to or greater than 10<br>mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable |                  |                    |         |  |

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|------------|---------------------------|---|--|--|--|--|---|
| 02.12.2010 |                           |   | 0000210  | Date of first issue: 27.03.2014  |  |  |   |
|            |                           |   |  |  |  |  |   |
|            |                           | exposed to a<br>specific WEI<br>limits., When   | dust above these<br>Ls and exposure<br>re no specific she  | e lev<br>to t<br>ort-t   | vill be subject to COS<br>els. Some dusts have<br>hese must comply wi<br>erm exposure limit is   | e been a<br>th the a   | assigned<br>ppropriate  |
|            |                           | times the lor   | <u> </u>   | e lin  | nit should be used.  |  |   |
|            |                           |   | TWA<br>(Deceminately)  |  | 4 mg/m3  |  | GB EH40   |
| Furthe     | er information            | any kind who<br>mg.m-3 8-ho<br>dust. This m   | en present at a c<br>our TWA of inhal<br>leans that any du   | conc<br>able<br>ust v  | tance hazardous to h<br>entration in air equal<br>dust or 4 mg.m-3 8-<br>vill be subject to COS  | to or gr<br>hour TV<br>SHH if po   | eater than 10<br>VA of respiral<br>eople are  |
|            |                           |   |  |  | els. Some dusts have   |  |   |
|            |                           | limits., Wher   | specific WELs and exposure to these must comply with the appropriate<br>limits., Where no specific short-term exposure limit is listed, a figure three<br>times the long-term exposure limit should be used.   |  |  |  |   |
|            |                           |   | TWA (inhalable<br>dust)  |  | 10 mg/m3   |  | GB EH40   |
|            | er information            | those fractio<br>undertaken<br>General met<br>thoracic and<br>hazardous te<br>concentratio<br>inhalable du<br>any dust will<br>these levels<br>to these mus<br>contain parti<br>fate of any p<br>and the bod<br>particle. HSI<br>termed 'inha<br>fraction of ai<br>and is there<br>dust approxi<br>of the lung. I<br>MDHS14/4.,<br>WEL, all the<br>short-term e | Ins of airborne d<br>in accordance w<br>thods for samplin<br>i nhalable aeros<br>o health includes<br>on in air equal to<br>st or 4 mg.m-3 &<br>l be subject to C<br>. Some dusts ha<br>st comply with the<br>icles of a wide rate<br>or a wide rate<br>or a wide rate<br>articular particle<br>y response that is<br>a distinguishes t<br>lable' and 'respin<br>intorne material<br>fore available for<br>imates to the frace<br>Fuller definitions<br>Where dusts co<br>relevant limits s<br>xposure limit is 1<br>nit should be use | ust n<br>ith the<br>ng a<br>ols,<br>or g<br>or | respirable dust and i<br>which will be collected<br>in methods described<br>ind gravimetric analys<br>The COSHH definition<br>st of any kind when p<br>reater than 10 mg.m-<br>ur TWA of respirable<br>H if people are expo-<br>been assigned specific<br>propriate limits., Most<br>of sizes. The behavion<br>of sizes. The behavion<br>er entry into the human<br>cits, depend on the n<br>size, fractions for limit-<br>ies, Inhalable dust app<br>enters the nose and<br>position in the respiration<br>that penetrates to the<br>explanatory materia<br>in components that has<br>an digure three times | d when<br>d in MD<br>sis or reson of a s<br>resent a<br>-3 8-hou<br>dust. Th<br>sed to c<br>c WELs<br>our, dep<br>an respin<br>ature ar<br>-setting<br>oroxima<br>mouth c<br>tory trac<br>ne gas e<br>l are giv<br>ave thei<br>Where | sampling is<br>HS14/4<br>spirable,<br>ubstance<br>at a<br>ir TWA of<br>his means that<br>ust above<br>and exposur-<br>rial dusts<br>position and<br>ratory system<br>of size of the<br>purposes<br>tes to the<br>during breathict. Respirable<br>xchange regi-<br>ren in<br>r own assign-<br>no specific<br>ig-term |
|            |                           |   | TWA (Respirat<br>dust)   | ole  | 4 mg/m3  |  | GB EH40   |
| Furthe     | er information            | those fractio<br>undertaken<br>General met<br>thoracic and<br>hazardous to<br>concentratio  | oses of these lin<br>ins of airborne d<br>in accordance w<br>thods for samplin<br>l inhalable aeros<br>o health includes<br>in in air equal to   | ust v<br>ith th<br>ng a<br>ols,<br>s du:<br>or g   | respirable dust and i<br>which will be collected<br>ne methods describe<br>nd gravimetric analys<br>The COSHH definition<br>st of any kind when p<br>reater than 10 mg.m-<br>ur TWA of respirable  | d when a<br>d in MD<br>sis or rea<br>on of a s<br>resent a<br>-3 8-hou   | sampling is<br>HS14/4<br>spirable,<br>ubstance<br>at a<br>ır TWA of   |

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these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

| Substance name                   | End Use   | Exposure routes | Potential health<br>effects   | Value      |
|----------------------------------|-----------|-----------------|-------------------------------|------------|
| aluminium powder<br>(stabilised) | Workers   | Inhalation      | Long-term local<br>effects    | 3.72 mg/m3 |
|                                  | Consumers | Oral            | Long-term systemic<br>effects | 3.95 mg/kg |

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                | Environmental Compartment | Value       |
|-------------------------------|---------------------------|-------------|
| aluminium powder (stabilised) | Fresh water               | 0.0749 mg/l |
|                               | clarification plant       | 20 mg/l     |

#### 8.2 Exposure controls

| Personal protective equipment               |   |  |  |  |
|---|---|--|--|--|
| Eye protection                              | : | Face-shield  |  |  |
|   |   | Safety glasses   |  |  |
| Hand protection<br>Material<br>Glove length | : | Leather<br>Long sleeve gloves  |  |  |
| Remarks                                     | : | Leather gloves The choice of an appropriate glove does not<br>only depend on its material but also on other quality features<br>and is different from one producer to the other. |  |  |
| Skin and body protection                    | : | Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes.   |  |  |
| Respiratory protection                      | : | Use suitable breathing protection if workplace concentration requires.<br>Breathing apparatus with filter.<br>P1 filter  |  |  |

#### **Environmental exposure controls**



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| Wate    | r                         | : The product sh courses or the | ould not be allowed to enter drains, water soil. |

| 9.1 Information on basic physical and chemical properties |                                 |  |  |  |
|---|---------------------------------|--|--|--|
| Appearance  | : solid                         |  |  |  |
| Colour  | : grey                          |  |  |  |
| Odour   | : odourless                     |  |  |  |
| Odour Threshold   | : No data available             |  |  |  |
| рН  | : No data available             |  |  |  |
| Melting point/range                                       | : 660 °C                        |  |  |  |
| Boiling point/boiling rang                                | e : 2,500 °C                    |  |  |  |
| Flash point   | : No data available             |  |  |  |
| Evaporation rate  | : No data available             |  |  |  |
| Flammability (solid, gas)                                 | : The product is not flammable. |  |  |  |
| Self-ignition   | : No data available             |  |  |  |
| Auto-ignition temperature                                 | e : No data available           |  |  |  |
| Smoldering temperature                                    | : No data available             |  |  |  |
| Decomposition temperat                                    | ure : No data available         |  |  |  |
| Explosive properties                                      | : No data available             |  |  |  |
| Oxidizing properties                                      | : No data available             |  |  |  |
| Upper explosion limit / U<br>flammability limit           | pper : No data available        |  |  |  |
| Lower explosion limit / Lo<br>flammability limit          | ower : 30 g/m3                  |  |  |  |
| Vapour pressure   | : No data available             |  |  |  |
| Relative vapour density                                   | : No data available             |  |  |  |
| Relative density  | : No data available             |  |  |  |
| Density   | : 2.7 g/cm3                     |  |  |  |

# **SECTION 9: Physical and chemical properties**

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|             |  |                              |                             |   |
|             | Bulk density                               |                              | : No data available         | )   |
|             | Water s                                    | olubility                    | : No data available         | )   |
|             | Solubility in other solvents               |                              | : No data available         | 2   |
|             | Partition coefficient: n-<br>octanol/water |                              | : No data available         |   |
|             | Decomposition temperature                  |                              | : No data available         | 2   |
|             | Viscosity, dynamic                         |                              | : No data available         | 2   |
|             | Viscosity, kinematic                       |                              | : No data available         | 9   |
|             | Flow time                                  |                              | : No data available         | 9   |
|             |  |                              |                             |   |

# 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### **10.2 Chemical stability**

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

#### 10.4 Conditions to avoid

Conditions to avoid : No data available

# 10.5 Incompatible materials

Materials to avoid

: Acids Bases Oxidizing agents Water

#### **10.6 Hazardous decomposition products**

Contact with water or humid : This information is not available. air



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Thermal decomposition

: This information is not available.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### 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 sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### 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.

#### **Further information**

#### Product:

Remarks: No data available

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available



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|--|--|-----------------|-------------------|---|
|  | <b>istence and degradak</b><br>ata available | oility          |                   |   |
| <b>12.3 Bioaccumulative potential</b><br>No data available |  |                 |                   |   |
| <b>12.4 Mobility in soil</b><br>No data available          |  |                 |                   |   |
| 12.5 Resu  | ults of PBT and vPvB                         | assessme        | ent               |   |
| <u>Prod</u>  | luct:  |                 |                   |   |
| Asse   | ssment                                       | to b<br>ver     | e either pers     | nixture contains no components considered<br>istent, bioaccumulative and toxic (PBT), or<br>nd very bioaccumulative (vPvB) at levels of |
| 12.6 Othe  | er adverse effects                           |                 |                   |   |
| <u>Prod</u>  | luct:  |                 |                   |   |
|  | tional ecological<br>mation                  | : No            | data availabl     | e   |
|  |  |                 |                   |   |

# **SECTION 13: Disposal considerations**

| European Waste Catalogue<br>European Waste Catalogue | : | 12 01 04 - non-ferrous metal dust and particles<br>10 03 21 - other particulates and dust (including ball-mill dust)<br>containing hazardous substances |
|--|---|---|
| 13.1 Waste treatment methods                         |   | In accordance with least and notional regulations   |
| Product  | • | In accordance with local and national regulations.  |
| Contaminated packaging                               | : | Empty containers should be taken to an approved waste handling site for recycling or disposal. In accordance with local and national regulations.       |

# **SECTION 14: Transport information**

| 14.1 | UN | number |
|------|----|--------|
|      |    |        |

- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards
- 14.6 Special precautions for user

Remarks

Not classified as dangerous in the meaning of transport regulations.

:





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#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorisation (Article 59).

#### 15.2 Chemical safety assessment

# **SECTION 16: Other information**

#### Full text of other abbreviations

| GB EH40       | : | UK. EH40 WEL - Workplace Exposure Limits               |
|---------------|---|--|
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID -



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Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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