## DOW CORNING(R) 340 HEAT SINK COMPOUND

| Version | Revision Date: | SDS Number: | Date of last issue: 19.03.2016 |
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : DOW CORNING(R) 340 HEAT SINK COMPOUND
Product code : 000000000001015443
1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Heat transfer agents stance/Mixture

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

Company
: Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe

Telephone : English Tel: +49611237507 Deutsch Tel: $\quad+49611237500$ Français Tel: +3264511149 Italiano Tel: +3264511170 Español Tel: +3264511163

E-mail address of person : sdseu@dowcorning.com responsible for the SDS

### 1.4 Emergency telephone number

Dow Corning (Barry U.K. 24h) Tél: +44 1446732350
Dow Corning (Wiesbaden 24h) Tél: +4961122158
Dow Corning (Seneffe 24h) Tel: +32 64888240

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Acute aquatic toxicity, Category $1 \quad \mathrm{H} 400$ : Very toxic to aquatic life
Chronic aquatic toxicity, Category 1
H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms


Signal word
Hazard statements
Precautionary statements
: Warning
: H410 Very toxic to aquatic life with long lasting effects.

## Prevention:

P273 Avoid release to the environment.

## Response:

P391 Collect spillage.

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Silicone compound

Hazardous components

| Chemical name | CAS-No. <br> EC-No. <br> Registration number | Classification | Concentration <br> $(\% \mathrm{w} / \mathrm{w})$ |
| :--- | :--- | :--- | :--- |
| Zinc oxide | $1314-13-2$ | Aquatic Acute 1; <br> H400 | $>=50-<70$ |
|  | $215-222-5$ |  |  |
| $01-2119463881-32$ |  |  |  | | Aquatic Chronic 1; |
| :--- |
| H410 |$\quad$.

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Protection of first-aiders : No special precautions are necessary for first aid responders.
If inhaled : If inhaled, remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution. Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.

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Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
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

Treatment : Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical
Unsuitable extinguishing : None known. media

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : Exposure to combustion products may be a hazard to health. fighting

Hazardous combustion prod- : Metal oxides
ucts Carbon oxides
Silicon oxides
Formaldehyde

### 5.3 Advice for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if necfor firefighters essary. Use personal protective equipment.

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.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice and personal protective equipment recommendations.

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### 6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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

Methods for 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.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe 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.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Advice on common storage
: Keep in properly labelled containers. Store in accordance with the particular national regulations.
: Do not store with the following product types: Strong oxidizing agents

### 7.3 Specific end use(s)

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Specific use(s) : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health ef- <br> fects | Value |
| :--- | :--- | :--- | :--- | :--- |
| Zinc oxide | Workers | Skin contact | Long-term systemic <br> effects | $83 \mathrm{mg} / \mathrm{kg}$ <br> bw $/ \mathrm{day}$ |
|  | Workers | Inhalation | Long-term systemic <br> effects | $5 \mathrm{mg} / \mathrm{m3}$ |
|  | Consumers | Skin contact | Long-term systemic <br> effects | $83 \mathrm{mg} / \mathrm{kg}$ <br> $\mathrm{bw} / \mathrm{day}$ |
|  | Consumers | Inhalation | Long-term systemic <br> effects | $2.5 \mathrm{mg} / \mathrm{m3}$ |
|  | Consumers | Ingestion | Long-term systemic <br> effects | $0.83 \mathrm{mg} / \mathrm{kg}$ <br> bw $/ \mathrm{day}$ |

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

| Substance name | Environmental Compartment | Value |
| :--- | :--- | :--- |
| Zinc oxide | Fresh water | $20.6 \mu \mathrm{~g} / \mathrm{l}$ |
|  | Marine water | $6.1 \mu \mathrm{l}$ |
|  | Sewage treatment plant | $52 \mu \mathrm{~g} / \mathrm{l}$ |
|  | Fresh water sediment | $117.8 \mathrm{mg} / \mathrm{kg}$ |
|  | Marine sediment | $56.5 \mathrm{mg} / \mathrm{kg}$ |
|  | Soil | $35.6 \mathrm{mg} / \mathrm{kg}$ |

### 8.2 Exposure controls

## Engineering measures

Processing may form hazardous compounds (see section 10).
Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

## Personal protective equipment

Eye protection

Hand protection
Remarks
Skin and body protection
Respiratory protection
: Wear the following personal protective equipment: Safety glasses
: Wash hands before breaks and at the end of workday.
: Skin should be washed after contact.
: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that

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| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  | exposures are within recommended exposure guidelines. |

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance | $:$ paste |
| :--- | :--- |
| Colour | $:$ white |
| Odour | $:$ none |

Odour Threshold : No data available
pH : Not applicable
Melting point/freezing point : No data available
Initial boiling point and boiling : Not applicable range

Flash point : Not applicable
Evaporation rate : Not applicable
Flammability (solid, gas) : Not classified as a flammability hazard
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : Not applicable
Relative vapour density : No data available
Relative density : 2.0
Solubility(ies)
Water solubility : No data available
Partition coefficient: n - : No data available
octanol/water
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity
Viscosity, dynamic : Not applicable

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Explosive properties : Not explosive
Oxidizing properties $\quad:$ The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Molecular weight : No data available
Self-ignition : The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions
: Use at elevated temperatures may form highly hazardous compounds.
Can react with strong oxidizing agents.
Hazardous decomposition products will be formed at elevated temperatures.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid
: Oxidizing agents

### 10.6 Hazardous decomposition products

Thermal decomposition
: Formaldehyde

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of : exposure

Skin contact
Ingestion
Eye contact

Acute toxicity
Not classified based on available information.

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## Components:

Zinc oxide:
Acute oral toxicity $\quad$ : LD50 (Rat): $>5,000 \mathrm{mg} / \mathrm{kg}$ Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): $>5.7 \mathrm{mg} / \mathrm{l}$
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

## Skin corrosion/irritation

Not classified based on available information.

## Components:

## Zinc oxide:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

## Serious eye damage/eye irritation

Not classified based on available information.

## Components:

## Zinc oxide:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

## Respiratory or skin sensitisation

## Skin sensitisation

Not classified based on available information.

## Respiratory sensitisation

Not classified based on available information.

## Components:

Zinc oxide:
Test Type: Maximisation Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

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## Germ cell mutagenicity

Not classified based on available information.

## Components:

Zinc oxide:
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat
Application Route: Inhalation Method: OECD Test Guideline 474
Result: negative

## Carcinogenicity

Not classified based on available information.

## Reproductive toxicity

Not classified based on available information.

## Components:

## Zinc oxide:

Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative
Effects on foetal develop- : Test Type: Embryo-foetal development ment

Species: Hamster
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

## STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Not classified based on available information.

## Components:

## Zinc oxide:

Exposure routes: inhalation (dust/mist/fume)
Assessment: No significant health effects observed in animals at concentrations of $0.2 \mathrm{mg} / / 6 \mathrm{~h} / \mathrm{d}$ or less.

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## Repeated dose toxicity

## Components:

## Zinc oxide:

Species: Rat
NOAEL: $1.5 \mathrm{mg} / \mathrm{m} 3$
Application Route: inhalation (dust/mist/fume)
Exposure time: 3 Months
Method: OECD Test Guideline 413

## Aspiration toxicity

Not classified based on available information.

## SECTION 12: Ecological information

### 12.1 Toxicity

## Components:

Zinc oxide:
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 330-780 $\mu \mathrm{g} / \mathrm{l}$
Exposure time: 96 h
Remarks: Based on data from similar materials
Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 6.9-16.2 mg/ aquatic invertebrates

Exposure time: 48 h
Method: OECD Test Guideline 202
Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): $136 \mu \mathrm{~g} / \mathrm{l}$
Exposure time: 72 h
Method: OECD Test Guideline 201
NOEC (Selenastrum capricornutum (green algae)): $24 \mu \mathrm{~g} / \mathrm{l}$
Exposure time: 72 h
Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- : 1
icity)
Toxicity to microorganisms
EC50 : $5.2 \mathrm{mg} / \mathrm{l}$
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials
Toxicity to fish (Chronic tox- : NOEC: $199 \mu \mathrm{~g} / \mathrm{l}$ icity)

Exposure time: 30 d
Species: Oncorhynchus mykiss (rainbow trout)
Remarks: Based on data from similar materials
Toxicity to daphnia and other : NOEC: $37 \mu \mathrm{~g} / \mathrm{l}$
aquatic invertebrates (Chron- Exposure time: 21 d

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ic toxicity) Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials
M-Factor (Chronic aquatic : 1
toxicity)

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

## Components:

Zinc oxide:
Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 177

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| Product | Dispose of in accordance with local regulations. <br> According to the European Waste Catalogue, Waste Codes <br> are not product specific, but application specific. <br> Waste codes should be assigned by the user, preferably in <br> discussion with the waste disposal authorities. |
| :--- | :--- |
| Contaminated packaging $\quad:$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. |  |

## SECTION 14: Transport information

### 14.1 UN number

| ADN | $:$ UN 3077 |
| :--- | :---: |
| ADR | $:$ UN 3077 |
| RID | $:$ UN 3077 |
| IMDG | $:$ UN 3077 |
| IATA | $:$ |

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### 14.2 UN proper shipping name

| ADN | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. <br> (Zinc oxide) |
| :---: | :---: |
| ADR | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. <br> (Zinc oxide) |
| RID | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. <br> (Zinc oxide) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. <br> (Zinc oxide) |
| IATA | Environmentally hazardous substance, solid, n.o.s. (Zinc oxide) |
| 14.3 Transport hazard class(es) |  |
| ADN | 9 |
| ADR | 9 |
| RID | 9 |
| IMDG | 9 |
| IATA | 9 |
| 14.4 Packing group |  |
| ADN |  |
| Packing group | III |
| Classification Code | M7 |
| Hazard Identification Number | 90 |
| Labels | 9 |
| ADR |  |
| Packing group | III |
| Classification Code | M7 |
| Hazard Identification Number | 90 |
| Labels | 9 |
| Tunnel restriction code | (E) |
| RID |  |
| Packing group | III |
| Classification Code | M7 |
| Hazard Identification Number | 90 |
| Labels | 9 |
| IMDG |  |
| Packing group | III |
| Labels | 9 |
| EmS Code | F-A, S-F |
| IATA (Cargo) |  |

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| Packing instruction (cargo <br> aircraft) <br> Packing instruction (LQ) | $:$ Y966 |
| :--- | :--- |
| Packing |  |

Packing group : III
Labels : Miscellaneous

IATA (Passenger)
Packing instruction (passen- : 956
ger aircraft)
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous

### 14.5 Environmental hazards

## ADN

Environmentally hazardous : yes

## ADR

Environmentally hazardous : yes
RID
Environmentally hazardous : yes
IMDG
Marine pollutant : yes
IATA (Passenger)
Marine pollutant : yes
IATA (Cargo)
Marine pollutant : yes
14.6 Special precautions for user

Not applicable

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

Remarks
: 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).

Regulation (EC) No 1005/2009 on substances that de- : Not applicable plete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable lutants

Regulation (EC) No 649/2012 of the European Parlia- : Not applicable ment and the Council concerning the export and import of dangerous chemicals

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|  |  | Quantity 1 |
| :--- | :--- | :--- |
| E1 | ENVIRONMENTAL | 100 t |
|  | HAZARDS | 200 t |

The components of this product are reported in the following inventories:
NZloC : All ingredients listed or exempt.
TSCA $\quad:$ All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

AICS : All ingredients listed or exempt.
IECSC : All ingredients listed or exempt.
ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from inventory listing.

KECI : All ingredients listed, exempt or notified.
PICCS : All ingredients listed or exempt.
DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

REACH : For purchases from Dow Corning EU legal entities, all ingredients are currently pre/registered or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Corning legal entities with the intention to export into EEA please contact your DC representative/local office.

TCSI : All ingredients listed or exempt.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

## Full text of H-Statements

| H400 | $:$ Very toxic to aquatic life. |
| :--- | :--- |
| H410 | : Very toxic to aquatic life with long lasting effects. |

## Full text of other abbreviations

| Aquatic Acute | $:$ Acute aquatic toxicity |
| :--- | :--- |
| Aquatic Chronic | $:$ Chronic aquatic toxicity |


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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; NZloC - 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 - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; 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

Sources of key data used to compile the Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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

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.

GB / EN

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