

**SAFETY DATA SHEET**  
**DOW CORNING(R) CN-8760 G PART A**  
**ENCAPSULANT (PART A information is below)**

**DOW CORNING**

Version 4.0      Revision Date: 2016/11/09      SDS Number: 1389429-00006      Date of last issue: 2016/05/20  
Date of first issue: 2015/02/23

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) CN-8760 G PART A ENCAPSULANT  
(PART A information is below)

Product code : 00000000004087046

#### Recommended use of the chemical and restrictions on use

Recommended use : Electrical industry and electronics

#### Manufacturer or supplier's details

Company : Dow Corning Korea Ltd.

Address : 24 Gwanghyewon Sandan-Gil, Gwanghyewon-Myeon, Jincheon-Gun, Chungcheongbuk-Do, Korea

Telephone : 043-539-1114

Emergency telephone number : 043-539-1129

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the MSDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

#### GHS label elements

This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the MSDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

Precautionary statements : **Prevention:**  
P264 Wash the contact area thoroughly after handling.  
**Disposal:**  
P501 Dispose of contents and container according to wastes control act.

#### Other hazards which do not result in classification

None known.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Silicone

#### Components

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Chemical name	Common Name	CAS-No.	Concentration (% w/w)
Silane treated aluminum hydroxide	No data available	Not Assigned	>= 40 - < 50
Quartz	Crystallized silicon dioxide	14808-60-7	>= 20 - < 30
Aluminum oxide	Dialuminum trioxide	1344-28-1	>= 0.1 - < 1
Dimethyl Siloxane, Dimethylvinylsiloxy-terminated	Polydimethylsiloxane, vinyl end blocked	68083-19-2	>= 30 - < 40

#### 4. FIRST AID MEASURES

- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : None known.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : Treat symptomatically and supportively.

#### 5. FIREFIGHTING MEASURES

**Suitable and unsuitable extinguishing media**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Silicon oxides

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Metal oxides  
Formaldehyde

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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

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## 6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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## 7. HANDLING AND STORAGE

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.

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Conditions for safe storage : Keep in properly labelled containers.  
 Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:  
 Strong oxidizing agents

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silane treated aluminum hydroxide	Not Assigned	TWA (Respirable fraction)	1 mg/m <sup>3</sup> (Aluminium)	ACGIH
Quartz	14808-60-7	TWA (Respirable fraction)	0.05 mg/m <sup>3</sup>	KR OEL
Further information: Sufficient evidence of carcinogenicity in humans				
		TWA (Respirable fraction)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
Aluminum oxide	1344-28-1	TWA	10 mg/m <sup>3</sup>	KR OEL
		TWA (Respirable fraction)	1 mg/m <sup>3</sup> (Aluminium)	ACGIH

**These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.**

II

Quartz

**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 : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type

Eye protection : Wear the following personal protective equipment:  
 Safety glasses

Hand protection

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

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

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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.  
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.  
For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com)) or contact the Dow Corning customer service group.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : viscous liquid

Colour : off-white

Odour : slight

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : > 35 °C

Flash point : > 101.1 °C  
Method: closed cup  
> 250 °C  
Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Self-ignition : The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.

**Upper/Lower explosion limit**

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Solubility(ies)  
Water solubility : No data available

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Relative vapour density : No data available

Relative density : 1.57

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : 3,000 mPa.s

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

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#### 10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions : Not classified as a reactivity hazard.  
Stable under normal conditions.  
Use at elevated temperatures may form highly hazardous compounds.  
Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

**Hazardous decomposition products**  
Thermal decomposition : Formaldehyde

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#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

##### Health hazard information

##### Acute toxicity

Not classified based on available information.

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**Components:**

**Silane treated aluminum hydroxide:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

**Quartz:**

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

**Aluminum oxide:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 2.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**Silane treated aluminum hydroxide:**

Result: No skin irritation  
Remarks: Based on data from similar materials

**Aluminum oxide:**

Species: Rabbit  
Result: No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:**

**Silane treated aluminum hydroxide:**

Result: No eye irritation  
Remarks: Based on data from similar materials

**Aluminum oxide:**

Species: Rabbit  
Result: No eye irritation

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

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**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**Aluminum oxide:**

Test Type: Maximisation Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:**

**Quartz:**

Species: Humans  
Application Route: inhalation (dust/mist/fume)  
Result: positive  
Remarks: IARC: (International Agency for Research on Cancer)  
These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Carcinogenicity - Assessment : Positive evidence from human epidemiological studies (inhalation)

**Aluminum oxide:**

Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 86 weeks  
Result: negative

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Aluminum oxide:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 475  
Result: positive

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: Ingestion



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Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**Silane treated aluminum hydroxide:**

Effects on foetal development : Symptoms: No effects on foetal development  
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**Aluminum oxide:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Components:**

**Quartz:**

Exposure routes: inhalation (dust/mist/fume)  
Target Organs: Lungs  
Assessment: Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.

**Repeated dose toxicity**

**Components:**

**Quartz:**

Species: Humans  
LOAEL: 0.053 mg/m<sup>3</sup>

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Application Route: Inhalation  
Remarks: These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

**Aluminum oxide:**

Species: Dog  
Application Route: Ingestion  
Exposure time: 90 Days  
Symptoms: No adverse effects

Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 90 Days  
Symptoms: No adverse effects

**Aspiration toxicity**

Not classified based on available information.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**Silane treated aluminum hydroxide:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

**Quartz:**

**Ecotoxicology Assessment**

Acute aquatic toxicity : No toxicity at the limit of solubility

Chronic aquatic toxicity : No toxicity at the limit of solubility

**Aluminum oxide:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 218.64 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

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Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 7.1 mg/l  
Exposure time: 7 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.89 mg/l  
Exposure time: 28 d

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : Dispose of contents and container according to wastes control act.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

**Disposal precautions**

Dispose of contents and container according to wastes control act.

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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

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable

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Marine pollutant : Not applicable

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

Not applicable for product as supplied.

**National Regulations**

Refer to section 15 for specific national regulation.

**Special precautions for user**

Not applicable

**15. REGULATORY INFORMATION**

**National regulatory information**

**Regulation under the Occupational Safety and Health Act**

**Harmful Substances Prohibited from Manufacturing**

Not applicable

**Harmful Substances Required Permission for Manufacture**

Not applicable

**Harmful Agents to be kept below Occupational Exposure Limits**

Chemical name	CAS-No.
Silica (Crystalline quartz)	14808-60-7
α-Alumina	1344-28-1

**Harmful Agents Required to be kept below Permission Levels**

Not applicable

**Hazardous substances requiring management**

Chemical name	CAS-No.	Threshold limits (%)
Aluminum and compounds	Not Assigned	>= 1 %

**Controlled Substances Subject to Environment Monitoring**

Chemical name	CAS-No.	Threshold limits (%)
Silica	14808-60-7	

**Controlled Substances Subject to Health Examination**

Chemical name	CAS-No.	Threshold limits (%)
Aluminum and compounds	Not Assigned	>= 1 %

**Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act**

**Toxic Chemicals**

Not applicable

**Restricted Chemicals**

Not applicable

**Prohibited Chemicals**

Not applicable

**Toxic Release Inventory**

Chemical name	CAS-No.	Group	Threshold
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			limits (%)
Aluminium and its compounds	Not Assigned	Group II	>= 1 %

**Accident Precaution Chemicals**

Not applicable

**Dangerous Substances Safety Management Act**

Not Applicable to Dangerous Materials

**Wastes Control Act**

Industrial waste

Follow article 13 of the act to dispose the product waste

**Other requirements in domestic and other countries**

**The components of this product are reported in the following inventories:**

- NZIoC : All ingredients listed or exempt.
- REACH : All ingredients (pre-)registered or exempt.
- TSCA : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
- 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).
- AICS : All ingredients listed or exempt.
- TCSI : All ingredients listed or exempt.

**16. OTHER INFORMATION**

**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/>

Issuing date : 2015/02/23

**Revision number and date**

Number of Revision : 4.0

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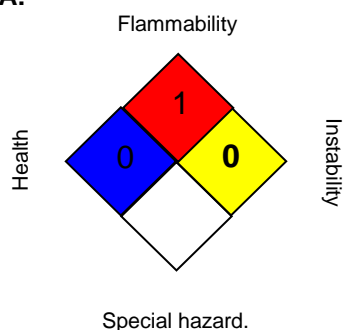
Revision Date : 2016/11/09

Other information : none

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

Date format : yyyy/mm/dd

#### NFPA:



#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
KR OEL : Harmful Agents to be kept below Occupational Exposure Limits  
ACGIH / TWA : 8-hour, time-weighted average  
KR OEL / TWA : Time Weighted Average

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; 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 Preven-

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tion; 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.

KR / EN