

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10.01.2017

Revision: 10.01.2017

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

- **1.1 Product identifier**
  - **Trade name: Silicon Carbide Carrier**
  - **Other product identifiers:** Recrystallized Silicon Carbide; Siliconized Silicon Carbide
  - **Product code:** SC5\*32, SC5\*167, SC5\*168, SC52126, and SC5\*159
  
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the mixture:** Catalyst carrier or catalyst support.
  - **Uses advised against:** No further relevant information available.
  
- **1.3 Details of the supplier of the Safety Data Sheet**
  - **Manufacturer/Supplier:**  
Saint-Gobain NorPro  
3840 Fishcreek Road  
Stow, Ohio 44224  
USA  
+1 (330) 673-5860  
norpro.stow@saint-gobain.com  
www.norpro.saint-gobain.com
  
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified as hazardous according to the Globally Harmonized System (GHS).  
The product is not classified as hazardous according to OSHA GHS regulations within the United States.  
The product is not classified as hazardous according to the CLP regulation.
  
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The product is not classified as hazardous according to the CLP regulation.  
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
  - **Hazard pictograms** Not Regulated
  - **Signal word** Not Regulated
  - **Hazard statements** Not Regulated.
  - **Precautionary statements** Not Regulated.
  - **Additional information:**  
Safety data sheet available on request.
  
- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

#### · Components:

CAS: 409-21-2 EINECS: 206-991-8 Reg.nr.: 01-2119402892-42-XXXX	silicon carbide substance with a Community workplace exposure limit	70-100%
CAS: 14808-60-7 EINECS: 238-878-4	quartz substance with a Community workplace exposure limit	0-30%
CAS: 7631-86-9 EINECS: 231-545-4 Reg.nr.: 01-2119379499-16-XXXX	precipitated silica (silica - amorphous) substance with a Community workplace exposure limit	0-30%

#### · **Additional information:**

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret. Non-classification as a carcinogen is based on non-inhalable form of product. IARC listings for quartz note that the substance must be respirable.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · **After inhalation:**

Respiration of particulates is unlikely during normal usage.  
Supply fresh air; consult doctor in case of complaints.

#### · **After skin contact:**

Brush off loose particles from skin.  
Wash with soap and water.  
If skin irritation is experienced, consult a doctor.

#### · **After eye contact:**

Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### · **After swallowing:** Do not induce vomiting; call for medical help immediately.

### · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
The product is not flammable.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid formation of dust.  
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions** No special measures required.
- **6.3 Methods and material for containment and cleaning up**  
Pick up mechanically.  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Prevent formation of dust.  
Avoid breathing dust.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** No further relevant information available.
- **7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### 409-21-2 silicon carbide

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> fibrous dust: *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 10* 3** mg/m <sup>3</sup> fibrous dust:0,1 f/cc; nonfibrous:*inh., **resp.

##### 14808-60-7 quartz

PEL (USA)	see Quartz listing
REL (USA)	Long-term value: 0,05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0,025* mg/m <sup>3</sup> *as respirable fraction

##### 7631-86-9 precipitated silica (silica - amorphous)

NIOSH REL (USA)	Long-term value: 6 mg/m <sup>3</sup>
OSHA PEL (USA)	Long-term value: 80 mg/m <sup>3</sup>

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.

### · 8.2 Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes.  
Avoid breathing dust.

#### · Respiratory protection:

Not required under normal conditions of use.  
NIOSH or EU approved dust respirator should be used for operations generating dust.

#### · Protection of hands:

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

#### · Eye protection:



Safety glasses

- **Body protection:** Not required under normal conditions of use.
- **Limitation and supervision of exposure into the environment:** No special requirements.

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· Risk management measures: No special requirements.

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · Appearance

Form: Solid in various forms  
 Colour: Dark green  
 Black

· Odour: Odourless

· Odour threshold: Not determined.

· pH-value: Not applicable.

· Melting point/freezing point: 2500 °C (4532 °F)

· Initial boiling point and boiling range: Not determined.

· Flash point: Not applicable.

· Flammability (solid, gas): Not determined.

· Auto/Self-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Explosive properties: Product does not present an explosion hazard.

#### · Explosion limits

Lower: Not determined.

Upper: Not determined.

· Oxidising properties: Not determined.

· Vapour pressure: Not determined.

#### · Density:

Relative density: 2-3 (water=1)

Vapour density: Not applicable.

Evaporation rate: Not applicable.

#### · Solubility in / Miscibility with

water: Insoluble.

· Partition coefficient: n-octanol/water: Not determined.

#### · Viscosity

Dynamic: Not applicable.

Kinematic: Not applicable.

· 9.2 Other information: No further relevant information available.

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## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Prevent formation of dust.
- **10.5 Incompatible materials**  
Strong acids.  
Oxidisers
- **10.6 Hazardous decomposition products** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect**
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**

### · IARC (International Agency for Research on Cancer):

14808-60-7	quartz	1
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### · NTP (National Toxicology Program):

14808-60-7	quartz	K
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### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.
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### · Probable routes of exposure:

Ingestion.  
Eye contact.  
Skin contact.

### · Repeated dose toxicity:

Long-term inhalation of silica dusts may cause obstructive pulmonary disease including silicosis.

### · Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

### · Carcinogenicity:

Contains known or suspect carcinogens when inhaled. Product is in non-inhalable form and is nonclassifiable as a carcinogen.

### · Reproductive toxicity:

Based on available data, the classification criteria are not met.

### · STOT-single exposure:

Based on available data, the classification criteria are not met.

### · STOT-repeated exposure:

Based on available data, the classification criteria are not met.

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- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Smaller quantities can be disposed of with household waste.  
Contact waste processors for recycling information.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

- |   |               |
|---|---------------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>                                   | Not Regulated |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>                     | Not Regulated |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· DOT, ADR, IMDG, IATA</li> <li>· Class</li> </ul> | Not Regulated |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>                               | Not Regulated |

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- |   |                 |
|---|-----------------|
| <b>· 14.5 Environmental hazards:</b>                                      |                 |
| · Marine pollutant:   | No              |
| · 14.6 Special precautions for user                                       | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- United States (USA)
- SARA

<b>· Section 355 (extremely hazardous substances):</b>	
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None of the ingredients are listed.

<b>· Section 313 (Specific toxic chemical listings):</b>	
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None of the ingredients are listed.

<b>· TSCA (Toxic Substances Control Act):</b>	
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All ingredients are listed.

<b>· Proposition 65 (California):</b>	
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<b>· Chemicals known to cause cancer:</b>	
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Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.

14808-60-7	quartz
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<b>· Chemicals known to cause reproductive toxicity for females:</b>	
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None of the ingredients are listed.

<b>· Chemicals known to cause reproductive toxicity for males:</b>	
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None of the ingredients are listed.

<b>· Chemicals known to cause developmental toxicity:</b>	
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None of the ingredients are listed.

<b>· Carcinogenic Categories</b>	
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<b>· EPA (Environmental Protection Agency)</b>	
--	--

None of the ingredients are listed.

<b>· IARC (International Agency for Research on Cancer)</b>	
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Reference to chemical component(s) listed below are based on unbound respirable particles and are not generally applicable to product as supplied.

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<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
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14808-60-7	quartz
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<b>· Canadian Domestic Substances List (DSL)</b>
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All ingredients are listed.
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<b>· Directive 2012/18/EU</b>
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<b>· Named dangerous substances - ANNEX I</b> None of the ingredients are listed.
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<b>· Other regulations, limitations and prohibitive regulations</b>
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<b>· Substances of very high concern (SVHC) according to REACH, Article 57</b>
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None of the ingredients are listed.
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<b>· 15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.
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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

LDLo: Lowest Lethal Dose Observed

**· Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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