

Safety Data Sheet

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

Printing date: 19 July 2018

Revision: 19 July 2018

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

- **1.1 Product identifier**
 - Trade name: **Rokide C Flame Spraying Rods**
 - Product code: 9100198D; 9100208F
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 - Application of the substance / the mixture: Preparation of coatings
 - Uses advised against: No further relevant information available.
- **1.3 Details of the supplier of the Safety Data Sheet**
 - Manufacturer/Supplier:
Saint Gobain Coating Solutions
One New Bond Street
Worcester, MA 01615-0137
(508) 795-5000
CeramicMaterials@saint-gobain.com
- **1.4 Emergency telephone number:**
 - (800) 255-3924 (North America)
 - (801) 1 (813)248-0585 (International)
 - 1-300-954-583 (Australia)
 - 0-800-591-6042 (Brazil)
 - 400-120-0751 (China)
 - 000-800-100-4086 (India)
 - 01-800-099-0731 (Mexico)

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 OSHA GHS regulations within the United States.
The product is not classified as hazardous according to the Globally Harmonized System (GHS).
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 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.
 - NFPA ratings (scale 0 - 4)

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Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



HEALTH 0 Health = 0
FIRE 0 Fire = 0
REACTIVITY 0 Reactivity = 0

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Components:**

CAS: 1308-38-9 EINECS: 215-160-9 Reg.nr.: 01-2119433951-39-XXXX	Chromium (III) oxide substance with a Community workplace exposure limit	50-100%
CAS: 14808-60-7 EINECS: 238-878-4	quartz substance with a Community workplace exposure limit	2,5-10%

· **Additional information:**

Non-classification as a carcinogen is based on non-respirable form of product.
For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.
There is no exposure to hazardous ingredients during normal use.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Unlikely route of exposure.
Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:**

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

· **After swallowing:**

Unlikely route of exposure.
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 special measures required.

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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**
Formation of toxic gases is possible during heating or in case of fire.
- **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**
Ensure adequate ventilation
Avoid formation of dust.
Do not breathe dust.
- **6.2 Environmental precautions** Avoid release to the environment.
- **6.3 Methods and material for containment and cleaning up**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
- **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**
Use only in well ventilated areas.
Prevent formation of dust.
Any unavoidable deposit of dust must be regularly removed.
Use proper precautions around molten material.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
Storage area should be dry and well-ventilated.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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· 8.1 Control parameters

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

1308-38-9 Chromium (III) oxide

IOELV (EU)	Long-term value: 2 mg/m ³ as Cr
EL (Canada)	Long-term value: 0,5 mg/m ³ as Cr
WEL (Great Britain)	Long-term value: 0,5 mg/m ³ as Cr
OEL (Ireland)	Long-term value: 2 mg/m ³ as Cr; IOELV
PEL (USA)	Long-term value: 0,5 mg/m ³ as Cr
REL (USA)	Long-term value: 0,5 mg/m ³ as Cr; See Pocket Guide App. C
TLV (USA)	Long-term value: 0,003 mg/m ³ as Cr; inhalable; soluble comp.: DSEN;RSEN

14808-60-7 quartz

BOELV (EU)	Long-term value: 0,1* mg/m ³ *respirable fraction
EL (Canada)	Long-term value: 0,025 mg/m ³ ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0,10* mg/m ³ *respirable fraction
WEL (Great Britain)	Long-term value: 0,1 mg/m ³ respirable dust, averaged over 8 hours
OEL (Ireland)	Long-term value: 0,1 mg/m ³
PEL (USA)	Long-term value: 0,05* mg/m ³ *resp. dust; 30mg/m ³ /SiO ₂ +2
REL (USA)	Long-term value: 0,05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0,025* mg/m ³ *as respirable fraction

· 8.2 Exposure controls

· **Engineering measures** Provide adequate ventilation.

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

Do not breathe dust.

· Respiratory protection:

Not required under normal conditions of use.

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Use respiratory protection when grinding or cutting material.
For spills, respiratory protection may be advisable.
Particulate mask should filter at least 99% of airborne particles.

· **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.
Protection may be required for spills.

· **Limitation and supervision of exposure into the environment:** Avoid release to the environment.

· **Risk management measures:** No further relevant information available.

SECTION 9: Physical and chemical properties

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

· **Appearance**

Form: Solid material

Colour: Dark green

· **Odour:** Odourless

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Melting point/freezing point:** 2300 °C (4.172 °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** Non-oxidising.

· **Vapour pressure:** Not determined.

· **Density:**

Relative density: Not determined.

Vapour density: Not applicable.

Evaporation rate: Not applicable.

· **Solubility in / Miscibility with**

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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.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· **10.3 Possibility of hazardous reactions**

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

· **10.4 Conditions to avoid** Prevent formation of dust.

· **10.5 Incompatible materials** No further relevant information available.

· **10.6 Hazardous decomposition products** Toxic metal oxide smoke

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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· **Probable routes of exposure:**

Ingestion.

Eye contact.

Skin contact.

· **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.

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- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **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**
Inorganic product, is not eliminable from water by means of biological cleaning processes.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Avoid release to the environment.
- **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**
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"> · 14.1 UN-Number · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · DOT, ADR, IMDG, IATA · Class | Not Regulated |
| <ul style="list-style-type: none"> · 14.4 Packing group · DOT, ADR, IMDG, IATA | Not Regulated |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: | |

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- | | |
|--|-----------------|
| · 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**

· Section 302 (extremely hazardous substances):
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None of the ingredients are listed.

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

· Section 313 (Specific toxic chemical listings):
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1308-38-9 Chromium (III) oxide

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

Reference to chemical component(s) listed below are based on unbound respirable particles and are not generally applicable to product as supplied.

14808-60-7 quartz

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· EPA (Environmental Protection Agency)
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1308-38-9 Chromium (III) oxide	D, CBD
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· IARC (International Agency for Research on Cancer)

14808-60-7 quartz	1
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· Canadian Domestic Substances List (DSL) (Substances not listed)
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All ingredients are listed.

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57
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None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

· Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (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., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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