

## Safety Data Sheet

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

Printing date 18.11.2015

Revision: 18.11.2015

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

- **1.1 Product identifier**
- **Trade name:** Rokide MBC Flame Spraying Rods
- **Article number:** 910029CA, 910039BA
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture:** Preparation of coatings
- **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:**  
CHEMTREC  
1-800-424-9300 (US/Canada)  
+01 703-527-3887 (International)

### 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.
- **Additional information:**  
Not hazardous as delivered. Long term inhalation of product dusts formed during use is harmful.  
There are no other hazards not otherwise classified that have been identified.  
0 % of the mixture consists of component(s) of unknown toxicity.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
This product does not have a classification according to the CLP regulation.  
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
- **Hazard pictograms** None.
- **Signal word** Not Regulated
- **Hazard-determining components of labelling:** None.
- **Hazard statements** Not Regulated
- **Precautionary statements** Not Regulated.
- **Additional information:**  
Safety data sheet available on request.

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· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 1308-38-9 EINECS: 215-160-9	dichromium trioxide substance with a Community workplace exposure limit	50-100%
CAS: 9003-35-4 NLP: 500-005-4	Phenol-Formaldehyde Polymers ⚠ Eye Irrit. 2, H319; Skin Sens. 1A, H317	2,5-10%
CAS: 13983-17-0 EINECS: 237-772-5	Wollastonite substance with a Community workplace exposure limit	2,5-10%
CAS: 14807-96-6 EINECS: 238-877-9	Talc substance with a Community workplace exposure limit	2,5-10%
CAS: 14808-60-7	quartz substance with a Community workplace exposure limit	≤ 2,5%
CAS: 108-95-2 EINECS: 203-632-7 Index number: 604-001-00-2	phenol ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ Muta. 2, H341; STOT RE 2, H373 ⚠ Skin Corr. 1B, H314	≤ 2,5%
CAS: 100-97-0 EINECS: 202-905-8 Index number: 612-101-00-2	methenamine ⚠ Flam. Liq. 1, H224; Flam. Sol. 2, H228 ⚠ Skin Sens. 1, H317	≤ 2,5%

· **Additional information:**

There is no exposure to hazardous ingredients during normal use.

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

Non-classification as a carcinogen is based on non-respirable form of product.

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## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Adverse health effects are not reasonably expected from normal use of product.
- **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**  
Slight irritant effect on skin and mucous membranes.  
Slight irritant effect on eyes.  
Nausea in case of ingestion.  
Gastric or intestinal disorders when ingested.
- **Hazards** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No special measures required.

## 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.
- **Additional information** No further relevant information available.

## 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.

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- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to section 13.  
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**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Provide ventilation for receptacles.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Do not store together with acids.  
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **8.1 Control parameters**

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

### 1308-38-9 dichromium trioxide

IOELV (EU)	Long-term value: 2 mg/m <sup>3</sup> as Cr
PEL (USA)	Long-term value: 0,5 mg/m <sup>3</sup> as Cr
REL (USA)	Long-term value: 0,5 mg/m <sup>3</sup> as Cr; See Pocket Guide App. C
TLV (USA)	Long-term value: 0,5 mg/m <sup>3</sup> as Cr

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EL (Canada)	Long-term value: 0,5 mg/m <sup>3</sup> as Cr
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**13983-17-0 Wollastonite**

PEL (USA)	Long-term value: 15*5** mg/m <sup>3</sup> *total dust **respirable fraction
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**14807-96-6 Talc**

PEL (USA)	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL (USA)	Long-term value: 2* mg/m <sup>3</sup> *respirable dust
TLV (USA)	Long-term value: 2* mg/m <sup>3</sup> *as respirable fraction; E
EL (Canada)	Long-term value: 2 *0,1 f/cc mg/m <sup>3</sup> resp. *if contains asbestos : ACGIH A1, IARC 1
EV (Canada)	Long-term value: 2* mg/m <sup>3</sup> , 2 f/cc ppm *respirable

**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
EL (Canada)	Long-term value: 0,025 mg/m <sup>3</sup> ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0,10* mg/m <sup>3</sup> *respirable fraction

**108-95-2 phenol**

IOELV (EU)	Short-term value: 16 mg/m <sup>3</sup> , 4 ppm Long-term value: 8 mg/m <sup>3</sup> , 2 ppm Skin
PEL (USA)	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin
REL (USA)	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Ceiling limit: 60* mg/m <sup>3</sup> , 15.6* ppm *15-min; Skin
TLV (USA)	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin; BEI
EL (Canada)	Long-term value: 5 ppm Skin
EV (Canada)	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin

**100-97-0 methenamine**

EV (Canada)	Short-term value: 2 mg/m <sup>3</sup> , 0,35 ppm
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- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.

· **Ingredients with biological limit values:**

**108-95-2 phenol**

BEI (USA)	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)
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- **8.2 Exposure controls**
- **Engineering measures** Provide adequate ventilation.
- **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.  
Wash hands before breaks and at the end of work.  
Avoid close or long term contact with the skin.  
Avoid contact with the eyes.  
Avoid contact with the liquefied material.  
Do not breathe dust.
- **Respiratory protection:**  
Not required under normal conditions of use.  
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** See Section 7 for additional information.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Solid material
Colour:	Dark green
Odour:	Odourless

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· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not applicable.
· <b>Change in condition</b> <b>Melting point/Melting range:</b>	2000 °C (3632 °F)
<b>Boiling point/Boiling range:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Not determined.
· <b>Auto/Self-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b> <b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidising properties</b>	Non-oxidising.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b> <b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>9.2 Other information</b>	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**  
Reacts with strong acids and alkali.  
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** Avoid acids.

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- **10.5 Incompatible materials:** Oxidizers, strong bases, strong acids
- **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:

#### 108-95-2 phenol

Oral	LD50	270 mg/kg (mouse) 317 mg/kg (rat)
Dermal	LD50	669 mg/kg (rat) 850 mg/kg (rabbit)
Inhalative	LC50/4h	0,316 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Slight irritant effect on skin and mucous membranes.
- **Serious eye damage/irritation** Slight irritant effect on eyes.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Acute effects (acute toxicity, irritation and corrosivity):** From product as supplied: None.
- **Repeated dose toxicity:**  
Repeated or long-term inhalation of product dusts may cause pulmonary disease.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **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.
- **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:** Generally not hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.

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## 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

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>  |                 |
| · DOT, ADR, IMDG, IATA   | Not Regulated   |
| · <b>14.2 UN proper shipping name</b>  |                 |
| · DOT, ADR, IMDG, IATA   | Not Regulated   |
| · <b>14.3 Transport hazard class(es)</b>   |                 |
| · DOT, ADR, IMDG, IATA   |                 |
| · Class  | Not Regulated   |
| · <b>14.4 Packing group</b>  |                 |
| · DOT, ADR, IMDG, IATA   | Not Regulated   |
| · <b>14.5 Environmental hazards:</b>   | Not applicable. |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Not Regulated   |

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**
- **Section 355 (extremely hazardous substances):**

108-95-2	phenol
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· **Section 313 (Specific toxic chemical listings):**

1308-38-9	dichromium trioxide
108-95-2	phenol

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

References to chemical components listed below are based on unbound respirable particles and are not generally applicable to product as supplied.

14807-96-6	Talc
14808-60-7	quartz

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

1308-38-9	dichromium trioxide	D, CBD
108-95-2	phenol	D, I

· **IARC (International Agency for Research on Cancer)**

13983-17-0	Wollastonite	3
14807-96-6	Talc	2B
14808-60-7	quartz	1
108-95-2	phenol	3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	quartz
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· **Canada**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

100-97-0	methenamine
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· **Canadian Ingredient Disclosure list (limit 1%)**

1308-38-9	dichromium trioxide
14808-60-7	quartz
108-95-2	phenol

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- **Directive 2012/18/EU**

· <b>Named dangerous substances - ANNEX I</b>
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None of the ingredients are listed.
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- **Other regulations, limitations and prohibitive regulations**

· <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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- **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.

- **Relevant phrases**

H224 Extremely flammable liquid and vapour.

H228 Flammable solid.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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

ACGIH: American Conference of Governmental Industrial Hygienists

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)

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

Flam. Liq. 1: Flammable liquids, Hazard Category 1

Flam. Sol. 2: Flammable solids, Hazard Category 2

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Skin Sens. 1A: Sensitisation - Skin, Hazard Category 1A

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Muta. 2: Germ cell mutagenicity, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

**Sources**Website, European Chemicals Agency (<http://http://echa.europa.eu/>)Website, US EPA Substance Registry Services ([http://http://ofmpub.epa.gov/sor\\_internet/registry/substreg/home/overview/home.do](http://http://ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do))Website, Chemical Abstracts Registry, American Chemical Society (<https://www.cas.org>)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 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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