



# Safety Data Sheet

acc. to Hazardous Products Regulations  
(HPR)

## Jade Ceramic Coating - Quartz

version number GHS 1.0.

Date of compilation. 2021-05-13.

### SECTION 1: Identification

- 1.1 Product identifier**  
**Trade name** Jade Ceramic Coating - Quartz
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Relevant identified uses** Polymeric automobile paint sealant  
Vehicle coating
- 1.3 Details of the supplier of the safety data sheet**  
B&B Blending, LLC  
10963 Leroy Drive  
Northglenn  
CO 80233  
United States
- telephone  
1.800.875.6320, 1.303.289.6320  
e-mail: info@bbblending.com  
website  
bbblending.com  
**e-mail (competent person)** Btirrell@bbblending.com
- 1.4 Emergency telephone number**  
**Emergency information service** USA 1.800.535.5053, INTL 1.352.323.3500  
24 hour emergency number

### SECTION 2: Hazard identification

- 2.1 Classification of the substance or mixture**  
**Classification acc. to GHS**

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	3	Flam. Liq. 3	H226
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.7	Reproductive toxicity	2	Repr. 2	H361f

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

- 2.2 Label elements**

#### Labeling

**Signal word**

Danger

**Pictograms**

GHS02, GHS05,  
GHS08





**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

**Hazard statements**

**H226** Flammable liquid and vapour.  
**H315** Causes skin irritation.  
**H318** Causes serious eye damage.  
**H361f** Suspected of damaging fertility.

**Precautionary statements**

**P202** Do not handle until all safety precautions have been read and understood.  
**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P233** Keep container tightly closed.  
**P240** Ground and bond container and receiving equipment.  
**P241** Use explosion-proof electrical/ventilating/lighting equipment.  
**P242** Use non-sparking tools.  
**P243** Take action to prevent static discharges.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P302+P352** IF ON SKIN: Wash with plenty of water.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310** Immediately call a POISON CENTER/doctor.  
**P321** Specific treatment (see on this label).  
**P362+P364** Take off contaminated clothing and wash it before reuse.  
**P370+P378** In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.  
**P403+P235** Store in a well-ventilated place. Keep cool.  
**P405** Store locked up.  
**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazardous ingredients for labelling**

Octamethylcyclotetrasiloxane  
Alkyl Polysilicate

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

Containing a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not relevant (mixture).

**3.2 Mixtures**

**Description of the mixture**

Hazardous ingredients acc. to GHS				
Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
octamethylcyclotetrasiloxane	CAS No 556-67-2	$\geq 0.1$	Flam. Liq. 3 / H226 Repr. 2 / H361f	PBT vPvB
Alkyl Polysilicate	CAS No not available	$\geq 3$	Eye Dam. 1 / H318	
ambient temperature curable refractory resin C	CAS No not available	10 - < 25	Flam. Liq. 2 / H225 Acute Tox. 4 / H302 Skin Irrit. 2 / H315	
decamethylcyclopentasilox- ane	CAS No 541-02-6	11.29 - 21.3	Flam. Liq. 4 / H227	PBT vPvB



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

Hazardous ingredients acc. to GHS				
Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Distillates (petroleum), hydro-treated light	CAS No 64742-47-8	< 10	Asp. Tox. 1 / H304	

**Notes**

PBT: The substance was identified as a PBT (persistent, bioaccumulative and toxic)

vPvB: The substance was identified as a vPvB (very persistent and very bioaccumulative)

For full text of abbreviations: see SECTION 16.

*This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.*

**SECTION 4: First-aid measures**

**4.1 Description of first-aid measures**

**General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing.

**Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and effects are not known to date.

**4.3 Indication of any immediate medical attention and special treatment needed**

none

**SECTION 5: Fire-fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water spray. BC-powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Water jet.

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

**Hazardous combustion products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Remove persons to safety.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

**Advice on how to contain a spill**

Covering of drains.

**Advice on how to clean up a spill**

Wipe up with absorbent material (e.g. cloth, fleece). collect spillage

sawdust

kieselgur (diatomite)

sand

universal binder

**Appropriate containment techniques**

Use of adsorbent materials.

**Other information relating to spills and releases**

Place in appropriate containers for disposal.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Recommendations**

**Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

**Specific notes/details**

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

**Advice on general occupational hygiene**

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

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

**Managing of associated risks**

**Explosive atmospheres**

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

**Flammability hazards**

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

**General rule**

Do not use for squirting or spraying.

**Ventilation requirements**

Use local and general ventilation. Ground/bond container and receiving equipment.

**Packaging compatibilities**

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

**7.3 Specific end use(s)**

See section 16 for a general overview.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
CA	Jet fuels	64742-47-8	OEL (BC)		200					Hy-Carb, i, vap, H	"BC Regulation"

**Notation**

Ceiling-C	Ceiling value is a limit value above which exposure should not occur
H	Absorbed through the skin
HyCarb	Calculated as hydrocarbons
i	Inhalable fraction
STEL	Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
vap	As vapors

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

<b>Relevant DNELs of components of the mixture</b>						
<b>Name of substance</b>	<b>CAS No</b>	<b>End-point</b>	<b>Threshold level</b>	<b>Protection goal, route of exposure</b>	<b>Used in</b>	<b>Exposure time</b>
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
decamethylcyclopentasiloxane	541-02-6	DNEL	97.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
decamethylcyclopentasiloxane	541-02-6	DNEL	97.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
decamethylcyclopentasiloxane	541-02-6	DNEL	24.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
decamethylcyclopentasiloxane	541-02-6	DNEL	24.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects

<b>Relevant PNECs of components of the mixture</b>						
<b>Name of substance</b>	<b>CAS No</b>	<b>End-point</b>	<b>Threshold level</b>	<b>Organism</b>	<b>Environmental compartment</b>	<b>Exposure time</b>
octamethylcyclotetrasiloxane	556-67-2	PNEC	10 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.059 mg/kg	pelagic organisms	sediments	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	1.7 mg/kg	(top) predators	water	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.44 µg/l	aquatic organisms	freshwater	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.044 µg/l	aquatic organisms	marine water	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.3 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.59 mg/kg	benthic organisms	sediments	short-term (single instance)
octamethylcyclotetrasiloxane	556-67-2	PNEC	0.16 mg/kg	terrestrial organisms	soil	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	10 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	11 mg/kg	benthic organisms	sediments	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	13 mg/kg	(top) predators	water	short-term (single instance)



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
decamethylcyclopentasiloxane	541-02-6	PNEC	1.1 mg/kg	pelagic organisms	sediments	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	1.2 µg/l	aquatic organisms	freshwater	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	0.12 µg/l	aquatic organisms	marine water	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	11 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	1.1 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
decamethylcyclopentasiloxane	541-02-6	PNEC	1.27 mg/kg	terrestrial organisms	soil	short-term (single instance)

**8.2 Exposure controls**

**Appropriate engineering controls**

General ventilation.

**Individual protection measures (personal protective equipment)**

**Eye/face protection**

Wear eye/face protection.

**Skin protection**

**Hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties**

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

**Appearance**

<b>Physical state</b>	Liquid
<b>Color</b>	Clear
<b>Particle</b>	Not relevant Liquid



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

<b>Odor</b>	Characteristic
-------------	----------------

**Other safety parameters**

<b>PH (value)</b>	Not determined
<b>Melting point/freezing point</b>	Not determined
<b>Initial boiling point and boiling range</b>	175 °C at 1,013 hPa
<b>Flash point</b>	56 °C at 101.3 kPa
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not relevant Fluid

**Explosive limits**

<b>Lower explosion limit (LEL)</b>	0.6 vol%
<b>Upper explosion limit (UEL)</b>	4.9 vol%
<b>Vapor pressure</b>	132 Pa at 25 °C
<b>Density</b>	Not determined
<b>Vapor density</b>	This information is not available
<b>Relative density</b>	Information on this property is not available
<b>Solubility(ies)</b>	Not determined

**Partition coefficient**

<b>- n-octanol/water (log KOW)</b>	This information is not available
<b>Auto-ignition temperature</b>	262 °C Auto-ignition temperature (liquids and gases)
<b>Viscosity</b>	Not determined
<b>Explosive properties</b>	Not explosive GHS of the United Nations, annex 4
<b>Oxidizing properties</b>	None

**9.2 Other information**

<b>Temperature class (USA, acc. to NEC 500)</b>	T2B Maximum permissible surface temperature on the equipment: 260 °C
---	---





# Safety Data Sheet

acc. to Hazardous Products Regulations  
(HPR)

## Jade Ceramic Coating - Quartz

version number GHS 1.0.

Date of compilation. 2021-05-13.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

##### If heated

Risk of ignition.

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### 10.5 Incompatible materials

Oxidizers.

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification acc. to GHS

##### Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed.

##### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
ambient temperature curable refractory resin C	not available	oral	500 mg/kg

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/eye irritation

Causes serious eye damage.

##### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

**Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Suspected of damaging fertility.

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Very toxic to aquatic life with long lasting effects.

<b>Aquatic toxicity (acute) of components of the mixture</b>					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
octamethylcyclotetrasiloxane	556-67-2	LC50	>22 µg/l	fish	96 h
octamethylcyclotetrasiloxane	556-67-2	EC50	>1,000 mg/l	aquatic invertebrates	96 h
decamethylcyclopentasiloxane	541-02-6	LC50	>16 µg/l	fish	96 h
decamethylcyclopentasiloxane	541-02-6	EC50	>2.9 µg/l	aquatic invertebrates	48 h

<b>Aquatic toxicity (chronic) of components of the mixture</b>					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
octamethylcyclotetrasiloxane	556-67-2	LC50	10 µg/l	fish	14 d
octamethylcyclotetrasiloxane	556-67-2	EC50	>500 mg/l	aquatic invertebrates	24 h
decamethylcyclopentasiloxane	541-02-6	LC50	>16 µg/l	fish	14 d
decamethylcyclopentasiloxane	541-02-6	EC50	>15 µg/l	aquatic invertebrates	21 d

**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

The substance fulfills the very bioaccumulative criterion.

**12.4 Mobility in soil**

Data are not available.



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

**12.5 Results of PBT and vPvB assessment**

The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

**12.6 Endocrine disrupting properties**

The mixture contains substance(s) with an endocrine disrupting potential.

**12.7 Other adverse effects**

Data are not available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Waste treatment-relevant information**

Solvent reclamation/regeneration.

**Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Waste treatment of containers/packages**

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

<b>14.1 UN number</b>	<b>1993</b>
<b>UN RTDG</b>	UN 1993
<b>IMDG-Code</b>	UN 1993
<b>ICAO-TI</b>	UN 1993
<b>14.2 UN proper shipping name</b>	<b>FLAMMABLE LIQUID, N.O.S.</b>
<b>UN RTDG</b>	FLAMMABLE LIQUID, N.O.S.
<b>IMDG-Code</b>	FLAMMABLE LIQUID, N.O.S.
<b>ICAO-TI</b>	Flammable liquid, n.o.s.
<b>Technical nameHazardous ingredients</b>	Octamethylcyclotetrasiloxane Ambient temperature curable refractory resin C
<b>14.3 Transport hazard class(es)</b>	
<b>UN RTDG</b>	3
<b>IMDG-Code</b>	3
<b>ICAO-TI</b>	3
<b>14.4 Packing group</b>	III Substance presenting low danger
<b>UN RTDG</b>	III
<b>IMDG-Code</b>	III
<b>ICAO-TI</b>	III
<b>14.5 Environmental hazards</b>	Hazardous to the aquatic environment



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

**Environmentally hazardous substance (aquatic environment)** Decamethylcyclopentasiloxane

**14.6 Special precautions for user**

There is no additional information.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

The cargo is not intended to be carried in bulk.

**14.8 Information for each of the UN Model Regulations**

**Transport information**  
National regulations Additional information (UN RTDG)

**UN number** 1993  
**Class** 3  
**Environmental hazards** Yes  
Hazardous to the aquatic environment  
**Packing group** III  
**Danger label(s)** 3  
Fish and tree



**Special provisions (SP)** 223, 274  
UN RTDG  
**Excepted quantities (EQ)** E1  
UN RTDG  
**Limited quantities (LQ)** 5 L  
UN RTDG  
**International Maritime Dangerous Goods Code (IMDG) Additional information**  
**Marine pollutant** Yes  
Hazardous to the aquatic environment  
Decamethylcyclopentasiloxane  
**Danger label(s)** 3  
Fish and tree



**Special provisions (SP)** 223, 274, 955  
**Excepted quantities (EQ)** E1  
**Limited quantities (LQ)** 5 L  
**EmS** F-E, S-E  
**Stowage category** A  
**International Civil Aviation Organization (ICAO-IATA/DGR) Additional information**  
**Environmental hazards** Yes  
Hazardous to the aquatic environment  
**Danger label(s)** 3



**Special provisions (SP)** A3  
**Excepted quantities (EQ)** E1  
**Limited quantities (LQ)** 10 L



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations specific for the product in question**

**National regulations (United States)**

**Superfund Amendment and Reauthorization Act (SARA TITLE III )**

**The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)**

none of the ingredients are listed

**Clean Air Act**

none of the ingredients are listed

**California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987**

Proposition 65 List of chemicals				
Name acc. to inventory	CAS No	Wt%	Remarks	Type of the toxicity
methanol	67-56-1	0.058		developmental

**VOC content**

**Regulated Volatile Organic Compounds (VOC-EPA)** 0.058 %

**Regulated Volatile Organic Compounds (VOC-Cal ARB)** 0.058 %

**Industry or sector specific available guidance(s)**

**NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

**NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		



# Safety Data Sheet

acc. to Hazardous Products Regulations  
(HPR)

## Jade Ceramic Coating - Quartz

version number GHS 1.0.

Date of compilation. 2021-05-13.

### National inventories

Country	Inventory	Status
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
US	TSCA	not all ingredients are listed

#### Legend

DSL	Domestic Substances List (DSL)
NDSL	Non-domestic Substances List (NDSL)
REACH Reg.	REACH registered substances
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Alignment to regulation. Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
"BC Regulation"	OHS Regulation: Section 5.48 (British Columbia)
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal ARB	California Air Resources Board
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EmS	Emergency Schedule
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

**Key literature references and sources for data**

Hazardous Products Regulations (HPR).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

Code	Text
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.



**Safety Data Sheet**  
acc. to Hazardous Products Regulations  
(HPR)

**Jade Ceramic Coating -  
Quartz**

version number GHS 1.0.

Date of compilation. 2021-05-13.

Code	Text
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.