



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

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

#### 1.1 Product identifier

Trade name **Jade Ceramic Coating - Ice**  
Registration number (REACH) not relevant (mixture)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses vehicle coating

#### 1.3 Details of the supplier of the safety data sheet

B&B Blending, LLC  
10963 Leroy Drive  
CO 80233 Northglenn  
United States

Telephone: 1.800.875.6320, 1.303.289.6320  
e-mail: info@bbblending.com  
Website: bbblending.com

Competent person responsible for the safety data sheet  
e-mail (competent person)

Robert Blahnik  
bbblahnik@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: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat-egory	Hazard class and category	Hazard state-ment
2.6	flammable liquid	Cat. 3	(Flam. Liq. 3)	H226
3.2	skin corrosion/irritation	Cat. 2	(Skin Irrit. 2)	H315
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319
3.7	reproductive toxicity	Cat. 2	(Repr. 2)	H361f
3.10	aspiration hazard	Cat. 1	(Asp. Tox. 1)	H304
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 4	(Aquatic Chronic 4)	H413

#### Remarks

For full text of H-phrases: 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. Spillage and fire water can cause pollution of watercourses.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

##### Signal word

**Danger**

##### Pictograms

GHS02, GHS07,  
GHS08



##### Hazard statements

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H361f Suspected of damaging fertility.  
H413 May cause long lasting harmful effects to aquatic life.

##### Precautionary statements

##### Precautionary statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Precautionary statements - response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

##### Precautionary statements - storage

P403+P235 Store in a well-ventilated place. Keep cool.

**Hazardous ingredients for labelling:** octamethylcyclotetrasiloxane, Distillates (petroleum), hydrotreated light

### 2.3 Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC
octamethylcyclotetrasiloxane	CAS No 556-67-2  EC No 209-136-7	50 – < 75	Flam. Liq. 3 / H226 Repr. 2 / H361f Aquatic Chronic 4 / H413
polysiloxazane resin	CAS No 475645-84-2	10 – < 25	Flam. Liq. 1 / H224 Acute Tox. 4 / H302 Skin Corr. 1A / H314 Eye Dam. 1 / H318 Aquatic Chronic 3 / H412



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC
Distillates (petroleum), hydro-treated light	CAS No 64742-47-8  EC No 265-149-8	10 – < 25	Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411
aminofunctional silicone fluid	CAS No 69430-37-1	1 – < 5	Flam. Liq. 2 / H225

Exact percentage of ingredients is withheld as a trade secret. For full text of abbreviations: see SECTION 16.

### 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. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### 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: Firefighting 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 vapour-air mixture. Solvent vapours 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.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### **Hazardous combustion products**

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### **5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate 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.

#### **For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### **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**

#### **Advices on how to contain a spill**

Covering of drains.

#### **Advices 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. Ventilate affected area.

### **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.

#### **• Warning**

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. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### 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.

### 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.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice

##### • Ventilation requirements

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

##### • Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) 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

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

No information available.

#### Relevant DNELs/DMELs/PNECs and other threshold levels

##### • 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
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

##### • relevant PNECs of components of the mixture



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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)

### 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.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### 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

Physical state	liquid
Colour	different
Odour	penetrating - like solvent

#### Other physical and chemical parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	64.6 °C
Flash point	44 – 48 °C at 101.3 kPa 112 – 119 °F at 1 atm
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid) non-flammable
Explosive limits	not determined
Vapour pressure	132 Pa at 25 °C
Density	0.97 g/ml at 25 °C 8.11 lb/gal at 25 °C
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	645.2 K
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

## 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.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### Hints to prevent fire or explosion

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

### Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

### 10.5 Incompatible materials

There is no additional information.

### 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 according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### Acute toxicity

Shall not be classified as acutely toxic.

#### • Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
polysiloxazane resin	475645-84-2	oral	301 mg/kg

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Summary of evaluation of the CMR properties

Suspected of damaging fertility.

Shall not be classified as germ cell mutagenic.

Shall not be classified as carcinogenic.

#### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

#### Aspiration hazard

May be fatal if swallowed and enters airways.





# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### SECTION 12: Ecological information

#### 12.1 Toxicity

May cause long lasting harmful effects to aquatic life.

##### Aquatic toxicity (acute)

##### Aquatic toxicity (acute) of components of the mixture

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
polysiloxazane resin	475645-84-2	LC50	57.1 mg/l	zebra fish	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	LL50	5 mg/l	fish	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	1.4 mg/l	aquatic invertebrates	48 h

##### Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

##### Aquatic toxicity (chronic) of components of the mixture

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
Distillates (petroleum), hydrotreated light	64742-47-8	LL50	17 mg/l	fish	24 h
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	4.6 mg/l	aquatic invertebrates	24 h

#### 12.2 Persistence and degradability

##### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
octamethylcyclotetrasiloxane	556-67-2	carbon dioxide generation	3.7 %	29 d

#### 12.3 Bioaccumulative potential

Data are not available.

##### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
octamethylcyclotetrasiloxane	556-67-2	12,400	6.488 (25.1 °C)	



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 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/packageings

It is a dangerous waste; only packageings which are approved (e.g. acc. to ADR) 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

14.1	UN number	1993
14.2	UN proper shipping name Hazardous ingredients	<b>FLAMMABLE LIQUID, N.O.S.</b> Octamethylcyclotetrasiloxane, Polysiloxazane resin
14.3	Transport hazard class(es) Class	3 (flammable liquids)
14.4	Packing group	III (substance presenting low danger)
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.	
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.	

#### Information for each of the UN Model Regulations

##### • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Class	3
Classification code	F1
Packing group	III
Danger label(s)	3



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31



Special provisions (SP)	274, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	D/E
Hazard identification No	30
<b>Emergency Action Code</b>	3YE
<b>• International Maritime Dangerous Goods Code (IMDG)</b>	
UN number	1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Class	3
Packing group	III
Danger label(s)	3



Special provisions (SP)	223, 274, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, <u>S-E</u>
Stowage category	A
<b>• International Civil Aviation Organization (ICAO-IATA/DGR)</b>	
UN number	1993
Proper shipping name	Flammable liquid, n.o.s.
Class	3
Packing group	III
Danger label(s)	3



Special provisions (SP)	A3, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

- Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 94 %

- Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 89 %

- Regulation 648/2004/EC on detergents

Labelling of contents	
Constituents	Weight % content (or range)
non-ionic surfactants	less than 5 %

#### 15.2 Chemical Safety Assessment

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

### SECTION 16: Other information

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

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.4	Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500 This number is only available during the following of- fice hours: Mon-Fri 09:00 AM - 05:00 PM	Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500 24 hour emergency number	yes
3.2		Description of the mixture: change in the listing (table)	yes
6.2	Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.	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.	yes
11.1	Classification according to GHS (1272/2008/EC, CLP)	Classification according to GHS (1272/2008/EC, CLP): This mixture does not meet the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC.	yes
11.1		• Acute toxicity of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mix- ture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mix- ture: change in the listing (table)	yes
14.2	Hazardous ingredients: Octamethylcyclotetrasiloxane, Organic polysilazane compound	Hazardous ingredients: Octamethylcyclotetrasiloxane, Polysiloxazane resin	yes
14.7	EmS: F-E, S-E	EmS: F-E, <u>S-E</u>	yes
16	List of relevant phrases (code and full text as stated in chapter 2 and 3)		yes



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
16.2		List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)	yes

### 16.2 Abbreviations and acronyms

Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
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
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

### 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
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Jade Ceramic Coating - Ice

Version number: GHS 2.0  
Replaces version of: 2017-03-14 (GHS 1)

revision: 2017-07-31

---

### Disclaimer

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