



Safety Data Sheet

acc. to Hazardous Products Regulations
(HPR)

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

SECTION 1: Identification

- 1.1 Product identifier**
Trade name Jade Ceramic Prep Cleaner
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant identified uses All-purpose cleaner
HS code 3402.11.00
- 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
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

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.

- 2.2 Label elements**

Labeling

Signal word Warning

Pictograms

GHS02, GHS07





Safety Data Sheet

acc. to Hazardous Products Regulations
(HPR)

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Hazard statements

- H226** Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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 Isopropyl alcohol

2.3 Other hazards
of no significance

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
isopropyl alcohol	CAS No 67-63-0	≥ 20	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	
2-butoxy-1-ethanol	CAS No 111-76-2	1 - < 10	Flam. Liq. 4 / H227 Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
1,4-dioxane	CAS No 123-91-1	< 0.1	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 Carc. 2 / H351 STOT SE 3 / H335	IARC: 2B



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Hazardous ingredients acc. to GHS				
Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Ethylene oxide	CAS No 75-21-8	<0.1	Press. Gas C / H280 Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Muta. 1B / H340 Carc. 1B / H350 STOT SE 3 / H335 STOT RE 1 / H372	IARC: 1 RoC "Known" U

Notes

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)

IARC: 2B: IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)

RoC

"Known": NTP-RoC: Known To Be A Human Carcinogen

U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

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. 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

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none



Safety Data Sheet

acc. to Hazardous Products Regulations
(HPR)

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. Alcohol resistant foam. BC-powder. Carbon dioxide (CO₂).

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 (CO₂).

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.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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.



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

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.

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.

Control of the effects

Protect against external exposure, such as

frost

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 ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	2-butoxyethanol	111-76-2	PEV/VEA	20	97						Regulation OHS



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
CA	2-butoxyethanol (EGBE)	111-76-2	OEL (BC)	20							"BC Regulation"
CA	2-butoxyethanol (EGBE)	111-76-2	OEL (ON-MoL)	20							MoL
CA	2-butoxyethanol (ethylene glycol monobutyl ether)	111-76-2	OEL (AB)	20	97						OHS Code
CA	1,4-dioxane	123-91-1	OEL (BC)	20						H	"BC Regulation"
CA	1,4-dioxane	123-91-1	OEL (ON-MoL)	20						H	MoL
CA	1,4-dioxane	123-91-1	PEV/VEA	20	72					H	Regulation OHS
CA	1,4-dioxane (diethylene dioxide)	123-91-1	OEL (AB)	20	72					H	OHS Code
CA	2-propanol	67-63-0	OEL (ON-MoL)	200		400					MoL
CA	2-propanol (isopropyl alcohol) (propan-2-ol)	67-63-0	OEL (AB)	200	492	400	984				OHS Code
CA	isopropanol (isopropyl alcohol) (2-propanol)	67-63-0	OEL (BC)	200		400					"BC Regulation"
CA	isopropyl alcohol	67-63-0	PEV/VEA	400	985	500	1,230				Regulation OHS
CA	ethylene oxide	75-21-8	OEL (AB)	1	1.8						OHS Code
CA	ethylene oxide	75-21-8	OEL (BC)	0.1		1					"BC Regulation"
CA	ethylene oxide	75-21-8	OEL (ON)	1	1.8	10	18				Regulation 833
CA	ethylene oxide	75-21-8	OEL (ON-MoL)	1	1.8	10	18				MoL
CA	ethylene oxide	75-21-8	PEV/VEA	1	1.8						Regulation OHS

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur
H Absorbed through the skin



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Notation

- 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)

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
isopropyl alcohol	67-63-0	DNEL	500 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
isopropyl alcohol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-butoxy-1-ethanol	111-76-2	DNEL	75 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
2-butoxy-1-ethanol	111-76-2	DNEL	98 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-butoxy-1-ethanol	111-76-2	DNEL	1,091 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
2-butoxy-1-ethanol	111-76-2	DNEL	246 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
1,4-dioxane	123-91-1	DNEL	73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1,4-dioxane	123-91-1	DNEL	144 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
1,4-dioxane	123-91-1	DNEL	21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ethylene oxide	75-21-8	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	freshwater	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	marine water	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	2,251 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	28 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	463 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	34.6 mg/kg	benthic organisms	sediments	short-term (single instance)



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2-butoxy-1-ethanol	111-76-2	PNEC	9.1 mg/l	aquatic organisms	water	intermittent release
2-butoxy-1-ethanol	111-76-2	PNEC	8.8 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	0.88 mg/l	aquatic organisms	marine water	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	463 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	34.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	3.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	2.33 mg/kg	terrestrial organisms	soil	short-term (single instance)
1,4-dioxane	123-91-1	PNEC	10 mg/l	aquatic organisms	freshwater	short-term (single instance)
1,4-dioxane	123-91-1	PNEC	0.67 mg/l	aquatic organisms	marine water	short-term (single instance)
1,4-dioxane	123-91-1	PNEC	2,700 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,4-dioxane	123-91-1	PNEC	37 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,4-dioxane	123-91-1	PNEC	0.153 mg/kg	terrestrial organisms	soil	short-term (single instance)
Ethylene oxide	75-21-8	PNEC	0.084 mg/l	aquatic organisms	freshwater	short-term (single instance)
Ethylene oxide	75-21-8	PNEC	0.008 mg/l	aquatic organisms	marine water	short-term (single instance)
Ethylene oxide	75-21-8	PNEC	13 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethylene oxide	75-21-8	PNEC	0.329 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethylene oxide	75-21-8	PNEC	0.033 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Ethylene oxide	75-21-8	PNEC	0.017 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.



Safety Data Sheet

acc. to Hazardous Products Regulations
(HPR)

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

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.

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
Color	Pale blue
Particle	Not relevant Liquid
Odor	Fruity

Other safety parameters

PH (value)	6 – 8
Melting point/freezing point	Not determined
Initial boiling point and boiling range	82.5 °C
Flash point	26 °C at 101.3 kPa
Evaporation rate	Not determined
Flammability (solid, gas)	Not relevant Fluid
Vapor pressure	31.69 hPa at 25 °C
Density	0.9235 g/ml
Vapor density	This information is not available

Solubility(ies)

Water solubility	Miscible in any proportion
------------------	----------------------------

Partition coefficient

- n-octanol/water (log KOW)	This information is not available
-----------------------------	-----------------------------------



Safety Data Sheet

acc. to Hazardous Products Regulations
(HPR)

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Auto-ignition temperature	230 °C
Viscosity	Not determined
Explosive properties	Not explosive GHS of the United Nations, annex 4
Oxidizing properties	None

9.2 Other information

Temperature class (USA, acc. to NEC 500)	T2D Maximum permissible surface temperature on the equipment: 215°C
---	--

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.



Safety Data Sheet

acc. to Hazardous Products Regulations
(HPR)

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
2-butoxy-1-ethanol	111-76-2	oral	1,414 mg/kg
2-butoxy-1-ethanol	111-76-2	inhalation: vapour	11 mg/4h
Ethylene oxide	75-21-8	oral	500 mg/kg
Ethylene oxide	75-21-8	inhalation: vapour	3 mg/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

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.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

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

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

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

14.1 UN number	1987
UN RTDG	UN 1987
IMDG-Code	UN 1987
ICAO-TI	UN 1987
14.2 UN proper shipping name	ALCOHOLS, N.O.S.
UN RTDG	ALCOHOLS, N.O.S.
IMDG-Code	ALCOHOLS, N.O.S.
ICAO-TI	Alcohols, n.o.s.
Technical nameHazardous ingredients	Isopropyl alcohol 1,4-dioxane
14.3 Transport hazard class(es)	
UN RTDG	3
IMDG-Code	3
ICAO-TI	3
14.4 Packing group	III Substance presenting low danger
UN RTDG	III
IMDG-Code	III
ICAO-TI	III
14.5 Environmental hazards	Non-environmentally hazardous acc. to the dangerous goods regulations
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	



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Transport information National regulations Additional information (UN RTDG)

UN number 1987
Class 3
Packing group III
Danger label(s) 3



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 -
Danger label(s) 3



Special provisions (SP) 223, 274
Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
EmS F-E, S-D
Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s) 3



Special provisions (SP) A3, A180
Excepted quantities (EQ) E1
Limited quantities (LQ) 10 L

SECTION 15: Regulatory information

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

National regulations (United States)

Toxic Substance Control Act (TSCA) All ingredients are listed
Superfund Amendment and Reauthorization Act (SARA TITLE III)

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

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities				
Name of substance	CAS No	Notes	Reportable quantity (pounds)	Threshold planning quantity (pounds)
Ethylene oxide	75-21-8	f	10	1000

Legend

f Chemical on the original list that does not meet toxicity criteria but because of its acute lethality, high production volume and known risk is considered chemical of concern ("Other chemicals"). (November 17, 1986, and February 15, 1990.)



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	CAS No	Remarks	Effective date
isopropyl alcohol	67-63-0	only persons who manufacture by the strong acid process are subject, supplier notification not required	1986-12-31
Ethylene oxide	75-21-8		1986-12-31
1,4-dioxane	123-91-1		1986-12-31

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
Ethylene oxide	75-21-8		3 4	10 (4,54)
1,4-dioxane	123-91-1		3 4	100 (45,4)

Legend

- 3 "3" indicates that the source is section 112 of the Clean Air Act
- 4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

Name of substance	CAS No	Type of registration	Basis for listing	Threshold quantity (lbs)
Ethylene oxide	75-21-8	Toxic substance	a b	10000

Legend

- a Mandated for listing by Congress.
- b On EHS list, vapor pressure 10 mmHg or greater.

Right to Know Hazardous Substance List

Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
isopropyl alcohol	67-63-0				1.0 %
2-butoxy-1-ethanol		1022			1.0 %
Ethylene oxide	75-21-8				0.1 %
1,4-dioxane	123-91-1				0.1 %

Hazardous Substances List (MN-ERTK)



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Name of substance	CAS No	References	Remarks
isopropyl alcohol	67-63-0	A, N, O	
2-butoxy-1-ethanol	111-76-2	A, O	skin

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
- skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
isopropyl alcohol	67-63-0		F3
2-butoxy-1-ethanol	111-76-2		CA F2
Ethylene oxide	75-21-8		CA MU TE F4 R3
1,4-dioxane	123-91-1		CA F3 R1

Legend

- CA Carcinogenic
- F2 Flammable - Second Degree
- F3 Flammable - Third Degree
- F4 Flammable - Fourth Degree
- MU Mutagenic
- R1 Reactive - First Degree
- R3 Reactive - Third Degree
- TE Teratogenic

Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
2-PROPANOL	67-63-0	E
ETHANOL, 2-BUTOXY-	111-76-2	

Legend

- E Environmental hazard

Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
isopropyl alcohol	67-63-0	T, F
2-butoxy-1-ethanol	111-76-2	T
Ethylene oxide	75-21-8	T, F, C
1,4-dioxane	123-91-1	T, F, C



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Legend

- C Carcinogenicity (IARC)
- F Flammability (NFPA®)
- T Toxicity (ACGIH®)

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
ethylene oxide	75-21-8	0.000000095		cancer
ethylene oxide	75-21-8	0.000000095		female
ethylene oxide	75-21-8	0.000000095		developmental, male
1,4-dioxane	123-91-1	0.000000095		cancer

VOC content

Regulated Volatile Organic Compounds (VOC-EPA) 31 %

Regulated Volatile Organic Compounds (VOC-Cal ARB) 31 %

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	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
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	3	material that can be ignited under almost all ambient temperature conditions
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National regulations(Canada)

Domestic Substances List (DSL)

All ingredients are listed.



Safety Data Sheet

acc. to Hazardous Products Regulations
(HPR)

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

National inventories

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

Legend

DSL Domestic Substances List (DSL)
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)
ACGIH®	American Conference of Governmental Industrial Hygienists
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Cal ARB	California Air Resources Board
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
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
HHS	Higher hazard substance
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

Abbr.	Descriptions of used abbreviations
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
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
LHS	Lower hazard substance
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
MoL	Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833
Muta.	Germ cell mutagenicity
NFPA®	National Fire Protection Association (United States)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
NTP-RoC	National Toxicology Program (United States): Report on Carcinogens
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
Regulation 833	R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents (Ontario)
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
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
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
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).



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

Jade Ceramic Prep Cleaner

version number GHS 1.0.

Date of compilation. 2022-01-19.

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 section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Disclaimer

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