



# Safety Data Sheet

acc. to Hazardous Products Regulations  
(HPR)

## Jade Detox Wash & Seal

version number GHS 1.0.

Date of compilation. 2022-01-19.

### SECTION 1: Identification

- 1.1 Product identifier**  
**Trade name** Jade Detox Wash & Seal
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Relevant identified uses** Vehicle shampoo and shine  
**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
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16

- 2.2 Label elements**

**Labeling**

**Signal word** Danger

**Pictograms**

**GHS05**



**Hazard statements**

**H315** Causes skin irritation.

**H318** Causes serious eye damage.



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**Precautionary statements**

- P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P302+P352** IF ON SKIN: Wash with plenty of water.  
**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.

**Hazardous ingredients for labelling** Sodium laureth sulfate

**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**

<b>Hazardous ingredients acc. to GHS</b>				
<b>Name of substance</b>	<b>Identifier</b>	<b>Wt%</b>	<b>Classification acc. to GHS</b>	<b>Notes</b>
sodium laureth sulfate	CAS No 68585-34-2	≥ 10	Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Eye Dam. 1 / H318	
cocamidopropylhydroxysulfate	CAS No 68139-30-0	≥ 1	Eye Irrit. 2A / H319	
Sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	CAS No 3088-31-1	≥ 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
C.I. Acid Yellow 23, trisodium salt	CAS No 1934-21-0  RTECS No UQ6400000	< 7	cD 1 / H-cD	
C.I. Acid Blue 9, disodium salt	CAS No 3844-45-9  RTECS No BQ4725000	< 4	cD 1 / H-cD	
Terpenes & Terpenoids, grapefruit oil	CAS No 68917-32-8	< 3	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335	
Grapefruit oil	CAS No 8016-20-4	< 0.1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
Allyl heptanoate	CAS No 142-19-8	< 0.1	Flam. Liq. 4 / H227 Acute Tox. 4 / H302 Acute Tox. 3 / H311 Skin Irrit. 2 / H315 Eye Irrit. 2A / H319 STOT RE 2 / H373	
tetra(trimethylsiloxy)silane	CAS No 3555-47-3	< 0.1	Flam. Liq. 4 / H227 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	



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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
beta-Pinene	CAS No 127-91-3	<0.06	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304	
Tangerine oil	CAS No 8016-85-1  RTECS No WW4480000	<0.06	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304	
1,4-dioxane	CAS No 123-91-1	<0.02	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 Carc. 2 / H351 STOT SE 3 / H335	IARC: 2B

### 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. 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.



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**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. Alcohol resistant foam. BC-powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Water jet.

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

**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. 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.

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

**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.



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**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. Use only in well-ventilated areas.

**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**

**Control of the effects**

**Protect against external exposure, such as**

frost

**General rule**

Do not use for squirting or spraying.

**7.3 Specific end use(s)**

See section 16 for a general overview.

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

**8.1 Control parameters**

<b>Occupational exposure limit values (Workplace Exposure Limits)</b>											
<b>Country</b>	<b>Name of agent</b>	<b>CAS No</b>	<b>Identifier</b>	<b>TWA [ppm]</b>	<b>TWA [mg/m<sup>3</sup>]</b>	<b>STEL [ppm]</b>	<b>STEL [mg/m<sup>3</sup>]</b>	<b>Ceiling-C [ppm]</b>	<b>Ceiling-C [mg/m<sup>3</sup>]</b>	<b>Notation</b>	<b>Source</b>
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	6,6-dimethyl-2-methylene-bicyclo(3.1.1)heptane	127-91-3	OEL (ON-MoL)	20							MoL
CA	pin-2(10)-ene	127-91-3	OEL (BC)		20						"BC Regulation"
CA	pin-2(10)-ene (selected monoterpene)	127-91-3	OEL (AB)	20	111						OHS Code
CA	β-pinene	127-91-3	PEV/VEA	20	112						Regulation OHS



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<b>Occupational exposure limit values (Workplace Exposure Limits)</b>											
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	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
- 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)

<b>Relevant DNELs of components of the mixture</b>						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
sodium laureth sulfate	68585-34-2	DNEL	175 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
sodium laureth sulfate	68585-34-2	DNEL	2,750 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
sodium laureth sulfate	68585-34-2	DNEL	132 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	DNEL	1.102 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	DNEL	0.625 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Allyl heptanoate	142-19-8	DNEL	2.97 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl heptanoate	142-19-8	DNEL	0.84 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
C.I. Acid Yellow 23, trisodium salt	1934-21-0	DNEL	372.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
C.I. Acid Yellow 23, trisodium salt	1934-21-0	DNEL	52.82 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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<b>Relevant DNELs of components of the mixture</b>						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1,4-dioxane	123-91-1	DNEL	73 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
1,4-dioxane	123-91-1	DNEL	144 mg/m <sup>3</sup>	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 <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects

<b>Relevant PNECs of components of the mixture</b>						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
sodium laureth sulfate	68585-34-2	PNEC	0.24 mg/l	aquatic organisms	freshwater	short-term (single instance)
sodium laureth sulfate	68585-34-2	PNEC	0.024 mg/l	aquatic organisms	marine water	short-term (single instance)
sodium laureth sulfate	68585-34-2	PNEC	10 g/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
sodium laureth sulfate	68585-34-2	PNEC	0.917 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
sodium laureth sulfate	68585-34-2	PNEC	0.092 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
sodium laureth sulfate	68585-34-2	PNEC	7.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	PNEC	0.086 mg/l	aquatic organisms	freshwater	short-term (single instance)
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	PNEC	0.009 mg/l	aquatic organisms	marine water	short-term (single instance)
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	PNEC	0.861 mg/l	aquatic organisms	water	intermittent release
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	PNEC	588.9 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	PNEC	3,222 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	PNEC	3,222 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Sodium 2-(2-dodecyl-oxyethoxy)ethyl sulphate	3088-31-1	PNEC	1,527 mg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	1.2 µg/l	aquatic organisms	water	intermittent release



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<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>
Allyl heptanoate	142-19-8	PNEC	0.12 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.012 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.001 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.002 mg/kg	terrestrial organisms	soil	short-term (single instance)
C.I. Acid Yellow 23, trisodium salt	1934-21-0	PNEC	0.12 mg/l	aquatic organisms	freshwater	short-term (single instance)
C.I. Acid Yellow 23, trisodium salt	1934-21-0	PNEC	0.012 mg/l	aquatic organisms	marine water	short-term (single instance)
C.I. Acid Yellow 23, trisodium salt	1934-21-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
C.I. Acid Yellow 23, trisodium salt	1934-21-0	PNEC	0.47 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
C.I. Acid Yellow 23, trisodium salt	1934-21-0	PNEC	0.047 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
C.I. Acid Yellow 23, trisodium salt	1934-21-0	PNEC	0.024 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)





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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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.

##### 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

Physical state	Liquid
Color	Pearlescent - Light green
Particle	Not relevant Liquid
Odor	Fruity - Citrus

#### Other safety parameters

PH (value)	7 - 7.5 (25 °C)
Melting point/freezing point	Not determined
Initial boiling point and boiling range	100 °C
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not relevant Fluid



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<b>Vapor pressure</b>	31.69 hPa at 25 °C
<b>Density</b>	1.03 g/cm <sup>3</sup> at 25 °C
<b>Vapor density</b>	This information is not available
<b>Solubility(ies)</b>	
<b>Water solubility</b>	Miscible in any proportion
<b>Partition coefficient</b>	
<b>- n-octanol/water (log KOW)</b>	This information is not available
<b>Auto-ignition temperature</b>	
<b>Viscosity</b>	Not determined
<b>Explosive properties</b>	Not explosive GHS of the United Nations, annex 4
<b>Oxidizing properties</b>	None
<b>9.2 Other information</b>	There is no additional information

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

**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.



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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
sodium laureth sulfate	68585-34-2	dermal	$\geq 2,000$ mg/kg
Allyl heptanoate	142-19-8	oral	630 mg/kg
Allyl heptanoate	142-19-8	dermal	810 mg/kg
Ethylene oxide	75-21-8	oral	500 mg/kg
Ethylene oxide	75-21-8	inhalation: vapour	3 mg/l/4h

### 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.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### 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

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
sodium laureth sulfate	68585-34-2	LC50	7.1 mg/l	fish	96 h
sodium laureth sulfate	68585-34-2	EC50	7.2 mg/l	aquatic invertebrates	48 h
sodium laureth sulfate	68585-34-2	ErC50	27 mg/l	algae	72 h
cocamidopropylhydroxysultaine	68139-30-0	LC50	1.7 – 2 mg/l	algae	72 h
cocamidopropylhydroxysultaine	68139-30-0	LC50	1.7 – 2 mg/l	daphnia	48 h
cocamidopropylhydroxysultaine	68139-30-0	LC50	1.7 – 2 mg/l	fish	96 h



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<b>Aquatic toxicity (acute) of components of the mixture</b>					
<b>Name of substance</b>	<b>CAS No</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Exposure time</b>
cocamidopropylhydroxysultaine	68139-30-0	EC50	11 mg/l	aquatic invertebrates	48 h
cocamidopropylhydroxysultaine	68139-30-0	ErC50	0.32 mg/l	algae	72 h
Allyl heptanoate	142-19-8	LC50	0.201 mg/l	fish	24 h
Allyl heptanoate	142-19-8	EC50	0.89 mg/l	aquatic invertebrates	48 h
Allyl heptanoate	142-19-8	ErC50	>4.6 mg/l	algae	72 h
C.I. Acid Yellow 23, trisodium salt	1934-21-0	EC50	5,707 mg/l	crustacean	48 h
C.I. Acid Yellow 23, trisodium salt	1934-21-0	EC50	>125 mg/l	aquatic invertebrates	48 h
C.I. Acid Yellow 23, trisodium salt	1934-21-0	EC50	>125 mg/l	algae	72 h
C.I. Acid Yellow 23, trisodium salt	1934-21-0	LC50	>120 mg/l	fish	96 h
1,4-dioxane	123-91-1	EC50	>1,000 mg/l	aquatic invertebrates	48 h
1,4-dioxane	123-91-1	ErC50	>1,000 mg/l	algae	72 h
C.I. Acid Blue 9, disodium salt	3844-45-9	LC50	824 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
C.I. Acid Blue 9, disodium salt	3844-45-9	EC50	>97 mg/l	daphnia magna	48 h
Ethylene oxide	75-21-8	LC50	90 mg/l	fish	24 h
Ethylene oxide	75-21-8	ErC50	240 mg/l	algae	96 h

<b>Aquatic toxicity (chronic) of components of the mixture</b>					
<b>Name of substance</b>	<b>CAS No</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Exposure time</b>
sodium laureth sulfate	68585-34-2	EC50	0.37 mg/l	aquatic invertebrates	21 d
sodium laureth sulfate	68585-34-2	LC50	0.74 mg/l	aquatic invertebrates	21 d
C.I. Acid Yellow 23, trisodium salt	1934-21-0	EC50	>1,000 mg/l	microorganisms	3 h
1,4-dioxane	123-91-1	LC50	>100 mg/l	fish	21 d
C.I. Acid Blue 9, disodium salt	3844-45-9	EC50	>1,000 mg/l	microorganisms	3 h
Ethylene oxide	75-21-8	EC50	>713 mg/l	microorganisms	180 min

**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.



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### 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.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### 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

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	Not subject to transport regulations
14.2	UN proper shipping name	Not relevant
14.3	Transport hazard class(es)	Not assigned
14.4	Packing group	Not relevant
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	
	<b>Transport information</b> National regulationsAdditional information(UN RTDG)	
	Not subject to transport regulations. UN RTDG	
	<b>International Maritime Dangerous Goods Code (IMDG)</b> Additional information	
	Not subject to IMDG.	
	<b>International Civil Aviation Organization (ICAO-IATA/DGR)</b> Additional information	
	Not subject to ICAO-IATA.	



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**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.)

**Specific Toxic Chemical Listings (EPCRA Section 313)**

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	CAS No	Remarks	Effective date
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.



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**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
Ethylene oxide	75-21-8				0.1 %
1,4-dioxane	123-91-1				0.1 %

**Hazardous Substance List (NJ-RTK)**

Name of substance	CAS No	Remarks	Classifications
Ethylene oxide	75-21-8		CA MU TE F4 R3
1,4-dioxane	123-91-1		CA F3 R1

**Legend**

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

**Hazardous Substance List (RI-RTK)**

Name of substance	CAS No	References
Ethylene oxide	75-21-8	T, F, C
1,4-dioxane	123-91-1	T, F, C

**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	0.00004209		cancer
ethylene oxide	75-21-8	0.00004209		female
ethylene oxide	75-21-8	0.00004209		developmental, male
1,4-dioxane	123-91-1	0.0004209		cancer

**VOC content**

**Regulated Volatile Organic Compounds (VOC-EPA)** 0.07913 %



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**Regulated Volatile Organic Compounds (VOC-Cal ARB)** 0.07933 %

### 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	1	material that must be preheated 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	1	material that must be preheated 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		

#### National regulations(Canada)

##### Domestic Substances List (DSL)

All ingredients are listed.

##### 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.





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**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
Asp. Tox.	Aspiration hazard
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)
cD	Combustible dust
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
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
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
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)
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
IMDG	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



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Abbr.	Descriptions of used abbreviations
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
Skin Sens.	Skin sensitization
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).

**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).



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

Code	Text
H-cD	May form combustible dust concentrations in air.
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.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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.