

## Venom

Version number: GHS 2.0  
Replaces version of: 2015-09-18 (GHS 1)

Revision: 2019-06-10

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Venom**

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

Relevant identified uses **Cleaner/degreaser**

#### 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 hr emergency information

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
B.16	substance or mixture corrosive to metals	1	Met. Corr. 1	H290

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word **danger**

- Pictograms

GHS05



- Hazard statements

H290 **May be corrosive to metals.**  
H315 **Causes skin irritation.**  
H318 **Causes serious eye damage.**





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### 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.

### 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

Substance or mixture corrosive to metals.

##### 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 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

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### 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. Use only in well-ventilated areas.

#### - Handling of incompatible substances or mixtures

Do not mix with acids.

#### 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 feedingstuffs.

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

#### Managing of associated risks

#### - Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

#### Control of the effects

#### Protect against external exposure, such as

Frost

#### - 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.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	2-butoxyethanol	111-76-2	PEL	50	240						29 CFR 1910.1000

**Notation**

Ceiling-C

STEL

TWA

ceiling value is a limit value above which exposure should not occur

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)

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	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
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 <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
potassium hydroxide	1310-58-3	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Alcohols, C9-11 ethoxylated	68439-46-3	DNEL	2,080 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C9-11 ethoxylated	68439-46-3	DNEL	294 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
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	microorganisms	sewage treatment plant (STP)	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	34.6 mg/kg	benthic organisms	sediment	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	3.13 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-butoxy-1-ethanol	111-76-2	PNEC	9.1 mg/l	aquatic organisms	water	intermittent release

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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
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.1038 mg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.1038 mg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	1.4 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	13.7 mg/kg	benthic organisms	sediment	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	13.7 mg/kg	pelagic organisms	sediment	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
Alcohols, C9-11 ethoxylated	68439-46-3	PNEC	0.014 mg/l	aquatic organisms	water	intermittent release

### 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.

##### Environmental exposure controls

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



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### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state	liquid
Color	purple
Odor	characteristic

##### Other safety parameters

pH (value)	12.7 (25 °C) (base)
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	no flash
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	31.69 hPa at 25 °C
Density	1.031 g/ml 8.59 lb/gal
Vapor density	this information is not available

##### Solubility(ies)

- Water solubility	miscible in any proportion
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##### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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Auto-ignition temperature	230 °C
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

#### 9.2 Other information

Temperature class (USA, acc. to NEC 500)	T2D (maximum permissible surface temperature on the equipment: 215 °C)
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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

#### 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

Release of flammable materials with:

Light metals (due to the release of hydrogen in an acid/alkaline medium)

#### 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 OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

Acute toxicity

Shall not be classified as acutely toxic.

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	1,746 mg/kg
2-butoxy-1-ethanol	111-76-2	dermal	1,100 mg/kg
2-butoxy-1-ethanol	111-76-2	inhalation: vapor	11 mg/4h
potassium hydroxide	1310-58-3	oral	333 mg/kg
Alcohols, C9-11 ethoxylated	68439-46-3	oral	1,200 mg/kg
Alcohols, C9-11 ethoxylated	68439-46-3	dermal	2,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.





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### 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.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
2-butoxy-1-ethanol	111-76-2	3	

#### Legend

3 Not classifiable as to carcinogenicity in humans

### 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

Harmful to aquatic life.

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-butoxy-1-ethanol	111-76-2	LC50	1,474 mg/l	fish	96 h
2-butoxy-1-ethanol	111-76-2	EC50	1,550 mg/l	aquatic invertebrates	48 h
2-butoxy-1-ethanol	111-76-2	ErC50	1,840 mg/l	algae	72 h
Alcohols, C9-11 ethoxylated	68439-46-3	LC50	8.5 mg/l	fathead minnow	96 h
Alcohols, C9-11 ethoxylated	68439-46-3	EC50	5.3 mg/l	daphnia magna	48 h
Alcohols, C9-11 ethoxylated	68439-46-3	ErC50	1 - 10 mg/l	algae	96 h

### 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 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

## 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

Only packagings which are approved (e.g. acc. to DOT) 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 | <b>UN number</b>  | 1719  |
| 14.2 | <b>UN proper shipping name</b>  | Caustic alkali liquids, n.o.s.  |
| 14.3 | <b>Transport hazard class(es)</b>   |   |
|      | Class   | 8 (corrosive substances)  |
| 14.4 | <b>Packing group</b>  | III (substance presenting low danger)                                 |
| 14.5 | <b>Environmental hazards</b>  | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | <b>Special precautions for user</b>                                       |   |
|      | There is no additional information.                                       |   |
| 14.7 | <b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b> |   |
|      | The cargo is not intended to be carried in bulk.                          |   |

### Information for each of the UN Model Regulations




#### **Transport of dangerous goods by road or rail (49 CFR US DOT)**

Index number	1719
Proper shipping name	Caustic alkali liquids, n.o.s.
- Particulars in the shipper's declaration	UN1719, Caustic alkali liquids, n.o.s., 8, III
- Reportable quantity (RQ)	53,163 lbs (24,136 kg) (potassium hydroxide)
Class	8
Packing group	III

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Danger label(s)	8
	
Special provisions (SP)	IB3, T7, TP1, TP28
ERG No	154
<b>International Maritime Dangerous Goods Code (IMDG)</b>	
UN number	1719
Proper shipping name	CAUSTIC ALKALI LIQUIDS, N.O.S.
Class	8
Marine pollutant	-
Packing group	III
Danger label(s)	8
	
Special provisions (SP)	223, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-B
Stowage category	A
Segregation group	18 - Alkalis
<b>International Civil Aviation Organization (ICAO-IATA/DGR)</b>	
UN number	1719
Proper shipping name	Caustic alkali liquids, n.o.s.
Class	8
Packing group	III
Danger label(s)	8
	
Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	1 L

### SECTION 15: Regulatory information

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

##### National regulations (United States)

15.1.5 Toxic Substance Control Act (TSCA) all ingredients are listed  
0.1



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

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)  
none of the ingredients are listed
- Specific Toxic Chemical Listings (EPCRA Section 313)  
none of the ingredients are listed

### 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)
potassium hydroxide	1310-58-3		1	1000 (454)

#### Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

### Clean Air Act

none of the ingredients are listed

### 15.1.5 New Jersey Worker and Community Right to Know Act 0.5

Right to Know Hazardous Substance List			
Name acc. to inventory	CAS No	Remarks	Classifications
2-BUTOXY ETHANOL (ETHANOL, 2-BUT-OXY-, BUTYL CELLOSOLVE)	111-76-2		CA F2
potassium hydroxide	1310-58-3		CO R1

#### Legend

CA Carcinogenic  
 CO Corrosive  
 F2 Flammable - Second Degree  
 R1 Reactive - First Degree

### 15.1.5 California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and 0.6 Toxic Enforcement Act of 1987

none of the ingredients are listed

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

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	/	none
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	-	

Chronic: chronic hazard



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Flammability: flammability hazard  
Health: health hazard  
Personal protection: personal protective equipment (PPE) for normal use  
Physical hazard: reactivity

### 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 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, including date of preparation or last revision

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

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
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 Telefax e-mail: info@bbblending.com Website: bbblending.com	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	yes
1.3	Competent person responsible for the SDS: Robert Blahnik		yes
1.3	e-mail (competent person): bblahnik@bbblending.com		yes
1.3		e-mail (competent person): btirrell@bbblending.com	yes



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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 24 hour emergency telephone number.	Emergency information service: USA 1.800.535.5053, INTL 1.352.323.3500 24 hr emergency information	yes
2.1	Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): Annex - Hazard class and category - Hazard statement code(s)	Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)	yes
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)	yes
2.1	Remarks: For full text of H-phrases: see SECTION 16.		yes
2.2		Pictograms: change in the listing (table)	yes
2.2	Hazard statements		yes
2.2		- Pictograms: change in the listing (table)	yes
2.2	Precautionary statements		yes
2.2	Precautionary statements - prevention		yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2	Precautionary statements - response		yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Precautionary statements - storage		yes
2.2		Precautionary statements - storage: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2		- Hazardous ingredients for labelling: Alcohols, C9-11 ethoxylated	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Hazards not otherwise classified	yes
2.3		Hazards not otherwise classified: change in the listing (table)	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Hazardous ingredients acc. to GHS: change in the listing (table)	yes
4.1	Following inhalation: In case of respiratory tract irritation, consult a physician. Provide fresh air.	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.	yes



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4.1	Following skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.	Following skin contact: Wash with plenty of soap and water.	yes
4.1	Following eye contact: Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.	Following eye contact: Remove contact lenses, if present and easy to do. Continue rinsing.	yes
6.4	Reference to other sections: Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.	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.	yes
7.2	Incompatible substances or mixtures: Observe compatible storage of chemicals.		yes
7.2	Consideration of other advice		yes
7.2	Packaging compatibilities: Only packagings which are approved (e.g. acc. to DOT) may be used.	- Packaging compatibilities: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.	yes
8.1	National limit values		yes
8.1	Occupational exposure limit values (Workplace Exposure Limits)		yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1	Relevant DNELs/DMELs/PNECs and other threshold levels: No data available.		yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
9.1	Odor: characteristic		yes
9.1		Odor: characteristic	yes
9.1	Flash point: no flash (closed cup)	Flash point: no flash	yes
9.1		Vapor density: this information is not available	yes
9.2		Other information	yes
9.2		Temperature class (USA, acc. to NEC 500): T2D (maximum permissible surface temperature on the equipment: 215°C)	yes
10.4	Physical stresses which might result in a hazardous situation and have to be avoided: strong shocks		yes
10.5	Incompatible materials: There is no additional information.	Incompatible materials: Oxidizers	yes



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11.1	Acute toxicity of components of the mixture		yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1	Summary of evaluation of the CMR properties: Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.		yes
11.1	Carcinogenicity		yes
11.1	• National Toxicology Program (United States): none of the ingredients are listed		yes
11.1	• IARC Monographs		yes
11.1	Specific target organ toxicity (STOT): Shall not be classified as a specific target organ toxicant.		yes
11.1		Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.	yes
11.1		Carcinogenicity: Shall not be classified as carcinogenic.	yes
11.1		IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: change in the listing (table)	yes
11.1		Reproductive toxicity: Shall not be classified as a reproductive toxicant.	yes
11.1		Specific target organ toxicity - single exposure: Shall not be classified as a specific target organ toxicant (single exposure).	yes
11.1		Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).	yes
12.1	Toxicity: Shall not be classified as hazardous to the aquatic environment.	Toxicity: Harmful to aquatic life.	yes
12.1	Aquatic toxicity (acute): Shall not be classified as hazardous to the aquatic environment.		yes
12.1	Aquatic toxicity (acute) of components of the mixture		yes
12.1	Aquatic toxicity (chronic)		yes
12.1	Aquatic toxicity (chronic) of components of the mixture		yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.2	Degradability of components of the mixture		yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.3	Bioaccumulative potential of components of the mixture		yes





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12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.6	Other adverse effects: Data are not available.	Other adverse effects	yes
12.6		Endocrine disrupting potential: None of the ingredients are listed.	yes
13.1	Waste treatment of containers/packages: Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.	yes
14.1	UN number: 1760	UN number: 1719	yes
14.2	UN proper shipping name: Corrosive liquid, n.o.s.	UN proper shipping name: Caustic alkali liquids, n.o.s.	yes
14.2	Technical name (hazardous constituents): potassium hydroxide		yes
14.5	Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations)	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	yes
14.7	• Transport of dangerous goods by road or rail (49 CFR US DOT)		yes
14.7	Index number: 1760		yes
14.7	Proper shipping name: Corrosive liquid, n.o.s.		yes
14.7	Class: 8		yes
14.7	Packing group: III		yes
14.7	Danger label(s): 8		yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): IB3, T7, TP1, TP28		yes
14.7	ERG No: 154		yes
14.7		Transport of dangerous goods by road or rail (49 CFR US DOT)	yes
14.7		Index number: 1719	yes
14.7		Proper shipping name: Caustic alkali liquids, n.o.s.	yes



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14.7		Particulars in the shipper's declaration: UN1719, Caustic alkali liquids, n.o.s., 8, III	yes
14.7		Reportable quantity (RQ): 53,163 lbs (24,136 kg) (potassium hydroxide)	yes
14.7		Class: 8	yes
14.7		Packing group: III	yes
14.7		Danger label(s): 8	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Special provisions (SP): IB3, T7, TP1, TP28	yes
14.7		ERG No: 154	yes
14.7	UN number: 1760	UN number: 1719	yes
14.7	Proper shipping name: CORROSIVE LIQUID, N.O.S.	Proper shipping name: CAUSTIC ALKALI LIQUIDS, N.O.S.	yes
14.7		Marine pollutant: -	yes
14.7		Segregation group: 18 - Alkalis	yes
14.7	UN number: 1760	UN number: 1719	yes
14.7	Proper shipping name: Corrosive liquid, n.o.s.	Proper shipping name: Caustic alkali liquids, n.o.s.	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): A3, 274	Special provisions (SP): A3	yes
15.1	National regulations (United States)		yes
15.1	SARA TITLE III (Superfund Amendment and Reauthorization Act)		yes
15.1	List of Extremely Hazardous Substances (40 CFR 355) (EPCRA Section 302 and 304): none of the ingredients are listed		yes
15.1	Specific Toxic Chemical Listings (40 CFR 372) (EPCRA Section 313): none of the ingredients are listed		yes
15.1	Industry or sector specific available guidance(s)		yes
15.1	NPCA-HMIS® III: Hazardous Materials Identification System (American Coatings Association)		yes



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15.1		NPCA-HMIS® III: change in the listing (table)	yes
15.1	NFPA® 704: National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)		yes
15.1		NFPA® 704: change in the listing (table)	yes
15.1	Right to Know Hazardous Substance List		yes
15.1		Right to Know Hazardous Substance List: change in the listing (table)	yes
15.1	Proposition 65 List of chemicals: none of the ingredients are listed		yes
15.1	Relevant European Union (EU) safety, health and environmental provisions		yes
15.1	Classification according to GHS (1272/2008/EC, CLP)		yes
15.1		Classification according to GHS (1272/2008/EC, CLP): change in the listing (table)	yes
15.1		National regulations (United States)	yes
15.1.50.1		Toxic Substance Control Act (TSCA): all ingredients are listed	yes
15.1.50.1		Superfund Amendment and Reauthorization Act (SARA TITLE III)	yes
15.1.50.1		The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304): none of the ingredients are listed	yes
15.1.50.1		Specific Toxic Chemical Listings (EPCRA Section 313): none of the ingredients are listed	yes
15.1.50.1		Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)	yes
15.1.50.1		List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)	yes
15.1.50.1		List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4): change in the listing (table)	yes
15.1.50.1		Clean Air Act: none of the ingredients are listed	yes
15.1.50.5		New Jersey Worker and Community Right to Know Act	yes
15.1.50.5		Right to Know Hazardous Substance List: change in the listing (table)	yes
15.1.50.6		California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987: none of the ingredients are listed	yes



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15.1.50.6		Industry or sector specific available guidance(s)	yes
15.1.50.6		NPCA-HMIS® III: Hazardous Materials Identification System. American Coatings Association.	yes
15.1.50.6		NPCA-HMIS® III: change in the listing (table)	yes
15.1.50.6		NFPA® 704: National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).	yes
15.1.50.6		NFPA® 704: change in the listing (table)	yes
15.1.50.6		National inventories	yes
15.1.50.6		National inventories: change in the listing (table)	yes
15.2		Chemical Safety Assessment: Chemical safety assessments for substances in this mixture were not carried out.	yes
16	Key literature references and sources for data: - OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200 - 49 CFR § 172.101 Hazardous Materials Table (DOT)	Key literature references and sources for data: OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200. Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
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



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Abbr.	Descriptions of used abbreviations
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	Substance or mixture corrosive to metals
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

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

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

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

Code	Text
H227	Combustible liquid.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.



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### Disclaimer

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