

**1 Identification**

**Product identifier**

Trade name: **ATTBLIME - AB2**  
 Article number: 5140-1265  
 Application of the substance / the mixture: Flattening agent, Matting agent

**Details of the supplier of the safety data sheet**

Manufacturer/Supplier: Romanoff International Supply Corp  
 9 Deforest Street  
 Amityville, NY 11701 - USA

Tel.: +1 631-842-2400  
 e-mail: sales@romanoff.com  
 website: http://www.romanoff.com

**EMERGENCY CONTACT:** CHEMTEL (ACCOUNT #MIS4594445  
 COLLECT CALLS ACCEPTED)

**USA, CANADA, PUERTO RICO & US VIRGIN ISLANDS:** 1-800-255-3924  
**AUSTRALIA:** 1-300-954-583 **BRAZIL:** 0-800-591-6042 **CHINA:** 400-120-0751  
**INDIA:** 000-800-100-4086 **MEXICO:** 800-099-0731  
**ALL OTHER COUNTRIES:** 1-813-248-0585

**2 Hazard(s) identification**

**Classification of the substance or mixture**

Flammable Aerosols 1 H222 Extremely flammable aerosol.  
 Gases under Pressure - Compressed gas H280 Contains gas under pressure; may explode if heated.  
 Eye Irritation 2A H319 Causes serious eye irritation.  
 Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

**Label elements**

GHS label elements  
 Hazard pictograms The product is classified and labeled according to the Globally Harmonized System (GHS).



GHS02 GHS04 GHS07

Signal word: Danger

Hazard-determining components of labeling:

propan-2-ol  
 Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes  
 Extremely flammable aerosol.  
 Contains gas under pressure; may explode if heated.  
 Causes serious eye irritation.

Hazard statements

May cause drowsiness or dizziness.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear eye protection / face protection.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Call a poison center/doctor if you feel unwell.  
 If eye irritation persists: Get medical advice/attention.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Protect from sunlight. Store in a well-ventilated place.  
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Information pertaining to particular dangers for man and environment:**

NFPA ratings (scale 0 - 4)



Health = 2  
 Fire = 4  
 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 2  
 Fire = 4  
 Reactivity = 3

**Other hazards**

Results of PBT and vPvB assessment  
 PBT: Not applicable.

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<b>Trade name: ATTBLIME - AB2</b>		
. vPvB: Not applicable.		(Contd. of page 1)
<b>3 Composition/information on ingredients</b>		
. <b>Chemical characterization: Mixtures</b>		
. Description: Active substance with propellant		
. Dangerous components:		
CAS: 106-97-8	butane (containing $\leq 0,1$ % butadiene (106-99-0)) ⚠ Flammable Gases 1, H220; ⚠ Gases under Pressure - Compressed gas, H280	25 – 50%
CAS: 67-63-0	propan-2-ol ⚠ Flammable Liquids 2, H225; ⚠ Eye Irritation 2A, H319; ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	10 – 25%
CAS: 74-98-6	propane ⚠ Flammable Gases 1, H220; ⚠ Gases under Pressure - Compressed gas, H280	10 – 25%
	Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes ⚠ Flammable Liquids 2, H225; ⚠ Aspiration Hazard 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336; ⚠ Aquatic Acute 2, H401	< 2.5%
CAS: 75-28-5	isobutane (containing $\leq 0,1$ % butadiene (106-99-0)) ⚠ Flammable Gases 1, H220; ⚠ Gases under Pressure - Compressed gas, H280	< 2.5%
. Additional information: For the wording of the listed hazard phrases refer to section 16.		
<b>4 First-aid measures</b>		
. <b>Description of first aid measures</b>		
. After inhalation:	Supply fresh air; consult doctor in case of complaints.	
. After skin contact:	Wash with water and acidic soap.	
. After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.	
. After swallowing:	Seek immediate medical advice.	
. Information for doctor:		
. Most important symptoms and effects, both acute and delayed	No further relevant information available.	
. Indication of any immediate medical attention and special treatment needed	No further relevant information available.	
<b>5 Fire-fighting measures</b>		
. <b>Extinguishing media</b>		
. Suitable extinguishing agents:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
. <b>Special hazards arising from the substance or mixture</b>		
No further relevant information available.		
. <b>Advice for firefighters</b>		
. Protective equipment:	No special measures required.	
<b>6 Accidental release measures</b>		
. <b>Personal precautions, protective equipment and emergency procedures</b>		
. <b>Environmental precautions:</b>		
Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.		
. <b>Methods and material for containment and cleaning up:</b>		
Ensure adequate ventilation.		
. <b>Reference to other sections</b>		
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.		
. <b>Protective Action Criteria for Chemicals</b>		
. PAC-1:		
CAS: 106-97-8	butane (containing $\leq 0,1$ % butadiene (106-99-0))	5500* ppm
CAS: 67-63-0	propan-2-ol	400 ppm
CAS: 74-98-6	propane	5500* ppm
CAS: 75-28-5	isobutane (containing $\leq 0,1$ % butadiene (106-99-0))	5500* ppm
CAS: 74-84-0	ethane	65000*** ppm
. PAC-2:		
CAS: 106-97-8	butane (containing $\leq 0,1$ % butadiene (106-99-0))	17000** ppm
CAS: 67-63-0	propan-2-ol	2000* ppm
CAS: 74-98-6	propane	17000** ppm
CAS: 75-28-5	isobutane (containing $\leq 0,1$ % butadiene (106-99-0))	17000** ppm
CAS: 74-84-0	ethane	230000*** ppm

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. PAC-3:		
CAS: 106-97-8	butane (containing $\leq 0,1$ % butadiene (106-99-0))	53000*** ppm
CAS: 67-63-0	propan-2-ol	12000** ppm
CAS: 74-98-6	propane	33000*** ppm
CAS: 75-28-5	isobutane (containing $\leq 0,1$ % butadiene (106-99-0))	53000*** ppm
CAS: 74-84-0	ethane	400000*** ppm

## 7 Handling and storage

### . Handling:

- . Precautions for safe handling: Open and handle receptacle with care.
- . Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

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

- . Requirements to be met by storerooms and receptacles: Store in a cool location. Observe official regulations on storing packagings with pressurized containers.
- . Information about storage in one common storage facility: Store away from foodstuffs.
- . Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
- . Specific end use(s): No further relevant information available.

## 8 Exposure controls/personal protection

- . Additional information about design of technical systems: No further data; see item 7.

### . Control parameters

- . Components with limit values that require monitoring at the workplace: The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits.

<b>CAS: 106-97-8 butane (containing <math>\leq 0,1</math> % butadiene (106-99-0))</b>	
REL	Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm
TLV (EX)	Short-term value: 1000 ppm
<b>CAS: 67-63-0 propan-2-ol</b>	
REL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm
REL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 400 ppm
TLV	Long-term value: 200 ppm
BEI, A4	
<b>CAS: 74-98-6 propane</b>	
REL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TLV	see Appendix F Minimal oxygen content ( D, EX)
<b>CAS: 75-28-5 isobutane (containing <math>\leq 0,1</math> % butadiene (106-99-0))</b>	
TLV (EX)	Short-term value: 1000 ppm

- . Ingredients with biological limit values:

<b>CAS: 67-63-0 propan-2-ol</b>	
BEI	40 mg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Acetone (background, nonspecific)

- . Additional information: The lists that were valid during the creation were used as basis.

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**. Exposure controls**

- . Personal protective equipment:
- . General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.

- . Breathing equipment:
- . Protection of hands:

Avoid contact with the eyes and skin.  
Not required.  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- . Material of gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- . Penetration time of glove material

Recommended thickness of the material:  $\geq 0.7$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- . Eye protection:
- . Body protection:

Tightly sealed goggles  
Protective work clothing

**9 Physical and chemical properties****. Information on basic physical and chemical properties**

- . General Information

- . Appearance:

Form: Aerosol

Color: White

- . Odor: Characteristic

- . Odor threshold: Not determined.

- . pH-value at 20 °C (68 °F): 6.9

- . Change in condition

Boiling point/Boiling range: -44.5 °C (-48.1 °F)

- . Flash point: -97 °C (-142.6 °F)

- . Flammability (solid, gaseous): Not applicable.

- . Ignition temperature: 230 °C (446 °F)

- . Decomposition temperature: Not determined.

- . Auto igniting: Product is not selfigniting.

- . Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- . Explosion limits:

Lower: 1.5 Vol %

Upper: 12 Vol %

- . Vapor pressure at 20 °C (68 °F): 8,300 hPa (6.200 mm Hg)

- . Density at 20 °C (68 °F): 0.6815 g/cm<sup>3</sup> (5.6871 lbs/gal)

- . Relative density: Not determined.

- . Vapor density: Not determined.

- . Evaporation rate: Not applicable.

- . Solubility in / Miscibility with

Water: Insoluble.

- . Partition coefficient (n-octanol/water): Not determined.

- . Viscosity:

Dynamic: Not determined.

- . Solvent content:

Organic solvents: 90.4 %

VOC content: 91.71 %

Solids content: 5.0 %

- . Other information: No further relevant information available.

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**10 Stability and reactivity**

- . **Reactivity** No further relevant information available.
- . **Chemical stability**
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . **Possibility of hazardous reactions** No dangerous reactions known.
- . **Conditions to avoid** No further relevant information available.
- . **Incompatible materials:** No further relevant information available.
- . **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**. **Information on toxicological effects**

## . Acute toxicity:

. LD/LC50 values that are relevant for classification:

**CAS: 67-63-0 propan-2-ol**

Oral	LD50	5,840 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	12,870 mg/kg (rab) (Acute Dermal Toxicity)
Inhalative	LC50/4h	72.6 mg/l (rat)
	LC50/6h	> 25 mg/l (rat) (Acute Inhalation Toxicity)

**Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes**

Oral	LD50	> 5,000 mg/kg (rat) (Acute Oral Toxicity)
Dermal	LD50	> 2,800 mg/kg (rabbit) (Acute Dermal Toxicity)
Inhalative	LC50/4h	> 23.3 mg/l (rat) (Acute Inhalation Toxicity)

## . Primary irritant effect:

. on the skin:

**CAS: 67-63-0 propan-2-ol**

Ätz-/Reizwirkung auf die Haut (4h) | (rabbit) (Acute Dermal Irritation/Corrosion)

. on the eye:

Irritating effect.

**CAS: 67-63-0 propan-2-ol**

Schwere Augenschädigung/-reizung | (rabbit) (Acute Eye Irritation/Corrosion)

## . Sensitization:

No sensitizing effects known.

. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant**CAS: 67-63-0 propan-2-ol**

NOAEL, maternal	400 mg/kg KG/day (rat)
NOAEL, parents	500 mg/kg KG/day (Two-Generation Reproduction Toxicity)
	853 mg/kg KG/day (rat) (One-Generation Reproduction Toxicity Study)

## . Carcinogenic categories

. IARC (International Agency for Research on Cancer)

CAS: 67-63-0 | propan-2-ol

3

. NTP (National Toxicology Program)

None of the ingredients is listed.

. OSHA-Ca (Occupational Safety &amp; Health Administration)

None of the ingredients is listed.

## . Reproductive toxicity

**CAS: 67-63-0 propan-2-ol**

Oral | NOAEL, Parents | 500 mg/kg (rat) (Two-Generation Reproduction Toxicity)

. Specific target organ toxicity - repeated exposure

**CAS: 67-63-0 propan-2-ol**

STOT RE | mg/kg/day (rat)

**12 Ecological information**. **Toxicity**

. Aquatic toxicity:

**CAS: 106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))**

EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)

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**CAS: 67-63-0 propan-2-ol**

EC50	> 100 mg/l (Bacteria)
EC50 (48h)	> 100 mg/l (daphnia magna/gr. Wasserfloh)
EC50 (72h)	> 100 mg/l (Scenedesmus subspicatus)
EC50 (96h)	> 1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
LC50 (24h)	9,714 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)
	9,640 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)
LC50 (48h)	> 100 mg/l (Leuciscus idus (Goldorfe))
LC50 (96h)	> 9,640 – 10,000 mg/l (Pimephales promelas (fettköpf. Ellritze)) (Fish, Acute Toxicity Test)
LOEC (8d)	1,000 mg/l (Algae)
EC50 (3h)	> 1,000 mg/l (activated sludge) (Mikroorganismen/Wirkung auf Belebtschlamm)
NOEC (21d)	30 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia magna Reproduction Test)
NOEC (96h)	1,000 mg/l (Scenedesmus subspicatus) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)

**CAS: 74-98-6 propane**

EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)

**Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes**

LL50 (96h)	> 13.4 mg/l (Oncorhynchus mykiss)
EL50 (48h)	3 mg/l (daphnia magna/gr. Wasserfloh)
EL50 (72h)	10 – 30 mg/l (Pseudokirchneriella subcapitata - Algen)
NOELR (72h)	10 mg/l (Pseudokirchneriella subcapitata - Algen)

**CAS: 75-28-5 isobutane (containing ≤ 0,1 % butadiene (106-99-0))**

EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)

**. Persistence and degradability****CAS: 67-63-0 propan-2-ol**

Biodegradability 30d | 70 – 84 % (aerob) ((Derterm. of the "Ready" Biodegr. Closed Bottle))

**. Behavior in environmental systems:**

. Bioaccumulative potential

**CAS: 67-63-0 propan-2-ol**

Log Pow | 0.05

. Mobility in soil No further relevant information available.

**. Additional ecological information:**. General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.**. Results of PBT and vPvB assessment**

. PBT: Not applicable.

. vPvB: Not applicable.

. Other adverse effects No further relevant information available.

**13 Disposal considerations****. Waste treatment methods**

. Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**. Uncleaned packagings:**

. Recommendation: Disposal must be made according to official regulations.

. Recommended cleansing agent: Water, if necessary with cleansing agents.

**14 Transport information****. UN-Number**

. DOT, ADR, IMDG, IATA UN1950




**. UN proper shipping name**. DOT Aerosols, flammable  
. ADR 1950 AEROSOLS  
. IMDG AEROSOLS  
. IATA AEROSOLS, flammable

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<b>. Transport hazard class(es)</b>	
. DOT	
	
. Class	2.1 Gases
. Label	2.1
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. ADR	
	
. Class	2 5F Gases
. Label	2.1
-----	
. IMDG, IATA	
	
. Class	2.1 Gases
. Label	2.1
. <b>Packing group</b>	
. DOT, ADR, IMDG, IATA	Void
. <b>Environmental hazards:</b>	
Not applicable.	
. <b>Special precautions for user</b>	
. Hazard identification number (Kemler code):	Warning: Gases
. EMS Number:	-
. Stowage Code	F-D,S-U
	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 litre:
	Category A. For AEROSOLS with a capacity above 1 litre:
	Category B. For WASTE AEROSOLS: Category C, Clear of
	living quarters.
	SG69 For AEROSOLS with a maximum capacity of 1 litre:
. Segregation Code	Segregation as for class 9. Stow "separated from" class 1 except
	for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2.
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
. <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	
Not applicable.	
. <b>Transport/Additional information:</b>	
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. ADR	
. Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
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. IMDG	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
. <b>UN "Model Regulation":</b>	
UN 1950 AEROSOLS, 2.1	

**15 Regulatory information**

- . **Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.
- . Sara

. Section 355 (extremely hazardous substances):

None of the ingredients is listed.

. Section 313 (Specific toxic chemical listings):

CAS: 67-63-0 | propan-2-ol

. TSCA (Toxic Substances Control Act):

CAS: 106-97-8 | butane (containing ≤ 0,1 % butadiene (106-99-0))

ACTIVE

CAS: 67-63-0 | propan-2-ol

ACTIVE

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CAS: 74-98-6	propane	ACTIVE
CAS: 294-62-2	Cyclododecan	ACTIVE
CAS: 75-28-5	isobutane (containing $\leq 0,1$ % butadiene (106-99-0))	ACTIVE
CAS: 74-84-0	ethane	ACTIVE

## . Hazardous Air Pollutants

None of the ingredients is listed.

## . Proposition 65

## . Chemicals known to cause cancer:

None of the ingredients is listed.

## . Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

## . Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

## . Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

## . Carcinogenic categories

## . EPA (Environmental Protection Agency)

None of the ingredients is listed.

## . TLV (Threshold Limit Value)

CAS: 67-63-0 | propan-2-ol

A4

## . MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

## . NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

## . GHS label elements

## . Hazard pictograms



GHS02 GHS04 GHS07

The product is classified and labeled according to the Globally Harmonized System (GHS).

## . Signal word

Danger

## . Hazard-determining components of labeling:

propan-2-ol  
Hydrocarbons, C7-C9, n-Alkanes, Isoalkanes, Cycloalkanes  
Extremely flammable aerosol.

## . Hazard statements

Contains gas under pressure; may explode if heated.  
Causes serious eye irritation.

## . Precautionary statements

May cause drowsiness or dizziness.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection / face protection.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a poison center/doctor if you feel unwell.  
If eye irritation persists: Get medical advice/attention.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Protect from sunlight. Store in a well-ventilated place.  
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

## . Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## . Department issuing SDS:

Environment protection department.

## . Contact:

## . Date of preparation / last revision

01/13/2023

## . Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation

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IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 BEI: Biological Exposure Limit  
 Flammable Gases 1: Flammable gases – Category 1  
 Flammable Aerosols 1: Aerosols – Category 1  
 Gases under Pressure - Compressed gas: Gases under pressure – Compressed gas  
 Flammable Liquids 2: Flammable liquids – Category 2  
 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3  
 Aspiration Hazard 1: Aspiration hazard – Category 1  
 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

. \* Data compared to the previous version altered.

—US—

Printing date 01/13/2023

Reviewed on 01/13/2023