

# SAFETY DATA SHEET

According to (EC) No. 1907/2006, as amended

<b>ULTRA Black Spray</b>		<b>CerMark ULTRA 12oz. Aerosol</b>	
Product specification	<b>RS_FP_606724</b>	Revision Date	<b>11.10.2024</b>
Version	<b>2.0</b>	Print Date	<b>15.01.2025</b>
Material number	<b>1436337</b>	Page	Page 1 of 24

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

### 1.1 Product identifier

Product code : **1436337**

Trade name : **ULTRA Black Spray**  
CerMark ULTRA 12oz. Aerosol

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

Use of the Substance/Mixture : Industrial use

Uses advised against : Others not identified as relevant use.

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

Company : Vibrantz GmbH  
Gutleutstraße 215  
60327 Frankfurt am Main

Telephone : +4969271160

Telefax : +496927116333

E-mail address : [sdb@vibrantz.com](mailto:sdb@vibrantz.com)

Responsible/issuing person

### 1.4 Emergency telephone number

In-Country Number : +(44)-870-8200418

CHEMTREC Global Number : +(1)-703-527-3887 (Call Collect)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.


### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H222 H229  H319 H351 H412  Extremely flammable aerosol. Pressurised container: May burst if heated.  Causes serious eye irritation. Suspected of causing cancer. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P201 P210 P211 P251 P280  <b>Storage:</b> P410 + P412  Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

## Hazardous components which must be listed on the label:

Molybdenum(VI) oxide

## Additional Labelling

EUH208      Contains polyaminoamide. May produce an allergic reaction.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : organic solvent  
inorganic pigment  
inorganic metal-nonmetal compound  
silicon/siloxane  
silicatic material  
metal/metal compound  
extremely flammable liquefied gas  
hydrocarbon, aliphatic

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43-xxxx	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 30 - < 50
Molybdenum(VI) oxide	1313-27-5 215-204-7 042-001-00-9 01-2119488038-30-xxxx	Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H335 (Respiratory system)	>= 1 - < 10
2-butoxyethanol	111-76-2 203-905-0 603-014-00-0 01-2119475108-36-xxxx	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319  Acute toxicity estimate  Acute oral toxicity: 1.200 mg/kg 1.200 mg/kg	>= 0,1 - < 10
ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46-xxxx	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 0,1 - < 10
boron orthophosphate	13308-51-5 236-337-7	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 2,5

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		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
		Acute toxicity estimate	
		Acute oral toxicity: 300,03 mg/kg	
polyaminoamide	162627-17-0	Skin Sens. 1; H317	>= 0,1 - < 1
4-methylpentan-2-one	108-10-1 203-550-1 606-004-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H336 (Central nervous system) EUH066	>= 0,1 - < 1
		Acute toxicity estimate	
		Acute inhalation toxicity (vapour): 11 mg/l	
Substances with a workplace exposure limit :			
butane	106-97-8 203-448-7 601-004-00-0 01-2119474691-32-xxxx	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	>= 10 - < 20
mica	12001-26-2 310-127-6		>= 0,1 - < 10
silicon	7440-21-3 231-130-8		>= 0,1 - < 10
manganese	7439-96-5 231-105-1		>= 0,1 - < 10

For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth immediately with plenty of water and seek medical advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes serious eye irritation.  
Suspected of causing cancer.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

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## 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

## 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### 6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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

- Methods for cleaning up : Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.
- Clean contaminated floors and objects thoroughly while observing environmental regulations.

### 6.4 Reference to other sections

- For personal protection see section 8.  
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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid release to the environment.  
Do not breathe vapours/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Do not spray on a naked flame or any incandescent material.
- Hygiene measures : Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
- BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethanol	64-17-5	TWA	1.000 ppm 1.920 mg/m <sup>3</sup>	GB EH40
butane	106-97-8	TWA	600 ppm 1.450 mg/m <sup>3</sup>	GB EH40
Further information: Capable of causing cancer and/or heritable genetic damage.				
		STEL	750 ppm 1.810 mg/m <sup>3</sup>	GB EH40
Further information: Capable of causing cancer and/or heritable genetic damage.				
Molybdenum(VI) oxide	1313-27-5	TWA	5 mg/m <sup>3</sup> (Molybdenum)	GB EH40
		STEL	10 mg/m <sup>3</sup> (Molybdenum)	GB EH40
mica	12001-26-2	TWA (Inhalable)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable fraction)	0,8 mg/m <sup>3</sup>	GB EH40
silicon	7440-21-3	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
manganese	7439-96-5	TWA (inhalable fraction)	0,2 mg/m <sup>3</sup> (Manganese)	2017/164/EU
Further information: Indicative				
		TWA (Respirable fraction)	0,05 mg/m <sup>3</sup> (Manganese)	2017/164/EU
Further information: Indicative				
		TWA (Inhalable)	0,2 mg/m <sup>3</sup> (Manganese)	GB EH40
		TWA (Respirable fraction)	0,05 mg/m <sup>3</sup> (Manganese)	GB EH40
2-butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m <sup>3</sup>	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		STEL	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		TWA	25 ppm 123 mg/m <sup>3</sup>	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	50 ppm 246 mg/m <sup>3</sup>	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				



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ethyl acetate	141-78-6	TWA	200 ppm 734 mg/m3	2017/164/EU
Further information: Indicative				
		STEL	400 ppm 1.468 mg/m3	2017/164/EU
Further information: Indicative				
		STEL	400 ppm 1.468 mg/m3	GB EH40
		TWA	200 ppm 734 mg/m3	GB EH40
4-methylpentan-2-one	108-10-1	TWA	20 ppm 83 mg/m3	2000/39/EC
Further information: Indicative				
		STEL	50 ppm 208 mg/m3	2000/39/EC
Further information: Indicative				
		STEL	100 ppm 416 mg/m3	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		TWA	50 ppm 208 mg/m3	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				

## Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole Creatinine (Urine)	After shift	GB EH40 BAT
4-methylpentan-2-one	108-10-1	4-methylpentan-2-one: 20 micromol per litre (Urine)	After shift	GB EH40 BAT

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
ethanol	Workers	Inhalation	Long-term systemic effects	950 mg/m3
	Workers	Dermal	Long-term systemic effects	343 mg/kg bw/day
2-butoxyethanol	Workers	Inhalation	Long-term systemic effects	98 mg/m3
	Workers	Inhalation	Acute systemic effects	1091 mg/m3
	Workers	Dermal	Long-term systemic effects	125 mg/kg bw/day
	Workers	Dermal	Acute systemic	89 mg/kg

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			effects	bw/day
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## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
ethanol	Fresh water	0,96 mg/l
	Marine water	0,79 mg/l
	Fresh water sediment	3,6 mg/kg dry weight (d.w.)
	Marine sediment	2,9 mg/kg dry weight (d.w.)
	Soil	0,63 mg/kg dry weight (d.w.)
	Sewage treatment plant	580 mg/l
2-butoxyethanol	Fresh water	8,8 mg/l
	Marine water	0,88 mg/l
	Sewage treatment plant	463 mg/l
	Fresh water sediment	34,6 mg/kg dry weight (d.w.)
	Marine sediment	3,46 mg/kg dry weight (d.w.)
	Soil	2,33 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

- Eye protection : Ensure that eyewash stations and safety showers are close to the workstation location.  
Tightly fitting safety goggles.
- Hand protection : Wear protective gloves, for example: polyvinyl alcohol or nitrile-butyl-rubber gloves, or similar; Glove thickness: > 0.4 mm and Break Through time: > 480 minutes. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Before removing gloves clean them with soap and water.
- Skin and body protection : Impervious clothing
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Equipment should conform to EN 143
- Filter type : Particulates type (P)
- Protective measures : Wear suitable protective equipment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : aerosol
- Odour : characteristic

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Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	19 %(V)
Lower explosion limit / Lower flammability limit	:	1,1 %(V)
Flash point	:	-104 °C Method: calculated
Decomposition temperature	:	No data available
pH	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Solubility(ies)	:	
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Bulk density	:	No data available
Relative vapour density	:	No data available

## 9.2 Other information

Explosives	:	No data available
Oxidizing properties	:	Not applicable
Flammable solids	:	
Burning rate	:	No data available
Self-ignition	:	No data available
Evaporation rate	:	No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : No data available

Not applicable

### 10.6 Hazardous decomposition products

No data available

Stable under normal conditions.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

##### ethanol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 10.470 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 51 mg/l  
Exposure time: 4 h

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Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

## **2-butoxyethanol:**

Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute toxicity estimate: 1.200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

LD50 Oral (Rat, male and female): 1.746 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

## **ethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 6.100 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

## **boron orthophosphate:**

Acute oral toxicity : LD50 (Rat, female): > 300 mg/kg

Acute toxicity estimate: 300,03 mg/kg  
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,31 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Method: ISO TC58

## **4-methylpentan-2-one:**

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Test atmosphere: vapour  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

## **butane:**

Acute inhalation toxicity : LC50 (Rat, male and female): 658 g/m<sup>3</sup>  
Exposure time: 4 h

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Test atmosphere: gas  
Assessment: The substance or mixture has no acute inhalation toxicity

## **silicon:**

Acute oral toxicity : LD50 Oral (Rat): 3.160 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

## **Skin corrosion/irritation**

Not classified based on available information.

## **Components:**

### **ethanol:**

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **Molybdenum(VI) oxide:**

Species : Rabbit  
Exposure time : 4 h  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

### **2-butoxyethanol:**

Species : Rabbit  
Exposure time : 72 h  
Method : OECD Test Guideline 404  
Result : Irritating to skin.  
GLP : yes

## **Serious eye damage/eye irritation**

Causes serious eye irritation.

## **Components:**

### **ethanol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation

### **Molybdenum(VI) oxide:**

Species : Rabbit  
Assessment : Irritating to eyes.  
Result : Irritating to eyes.

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## **2-butoxyethanol:**

Result : Eye irritation

## **ethyl acetate:**

Species : Rabbit  
Result : No eye irritation

## **silicon:**

Species : Rabbit  
Method : Draize Test  
Result : No eye irritation

## **Respiratory or skin sensitisation**

### **Skin sensitisation**

Not classified based on available information.

### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **boron orthophosphate:**

Remarks : No data available

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Suspected of causing cancer.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## Further information

### Components:

#### **boron orthophosphate:**

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

#### Components:

#### **ethanol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13.000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 12.340 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC10 (Chlorella vulgaris (Fresh water algae)): 11,5 mg/l  
Exposure time: 72 h  
Test Type: static test

#### **Molybdenum(VI) oxide:**

Toxicity to fish : (Pimephales promelas (fathead minnow)): 370 mg/l  
Exposure time: 96 h  
Remarks: No toxicity at the limit of solubility

#### **2-butoxyethanol:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.490 mg/l  
Exposure time: 96 h



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Test Type: static test  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.800 mg/l  
Exposure time: 48 h

### **ethyl acetate:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 560 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 3.300 mg/l  
Exposure time: 48 h

### **boron orthophosphate:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,207 mg/l  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 : > 0,135 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,35 mg/l  
Exposure time: 72 h  
Test Type: static test

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

## **12.2 Persistence and degradability**

### **Product:**

Biodegradability : Remarks: No data available

### **Components:**

#### **ethanol:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

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## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### **ethanol:**

Bioaccumulation : Bioconcentration factor (BCF): 0,66  
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0,35 (24 °C)  
pH: 7,4  
Method: OECD Test Guideline 107

#### **2-butoxyethanol:**

Partition coefficient: n-octanol/water : log Pow: 0,77 (20 °C)  
pH: 7

#### **ethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 0,73 (20 °C)

#### **4-methylpentan-2-one:**

Partition coefficient: n-octanol/water : Pow: 1,19

#### **butane:**

Partition coefficient: n-octanol/water : log Pow: 2,745

## 12.4 Mobility in soil

### Product:

Distribution among environmental compartments : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

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levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : None known.

### Components:

#### **boron orthophosphate:**

Additional ecological information : No data available  
There is no data available for this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Send to a licensed waste management company.  
Dispose of wastes in an approved waste disposal facility.  
The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number

- ADR** : UN 1950  
**IMDG** : UN 1950  
**IATA** : UN 1950

### 14.2 UN proper shipping name

- ADR** : AEROSOLS, FLAMMABLE, AEROSOLS  
**IMDG** : AEROSOLS  
**IATA** : Aerosols, flammable

### 14.3 Transport hazard class(es)

- ADR** : 2  
**IMDG** : 2.1

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**IATA** : 2.1

## 14.4 Packing group

### ADR

Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : 2.1

### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : 2.1

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

International Chemical Weapons Convention (CWC) : Neither banned nor restricted

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- Schedules of Toxic Chemicals and Precursors  
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Neither banned nor restricted
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Neither banned nor restricted
- UK REACH List of substances subject to authorisation (Annex XIV) : Neither banned nor restricted
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P3a FLAMMABLE AEROSOLS
- 18 Liquefied flammable gases (including LPG) and natural gas
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

## Other regulations:

### The components of this product are reported in the following inventories:

- TCSI (Taiwan) : On the inventory, or in compliance with the inventory
- TSCA (United States) : All substances listed as active on the TSCA inventory
- AIIIC (Australia) : Not in compliance with the inventory
- DSL/NDSL (Canada) : This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.  
  
boron orthophosphate  
fatty acids, C16-22, ammonium salts  
polyaminoamide
- ENCS (Japan) : On the inventory, or in compliance with the inventory
- ISHL (Japan) : Not in compliance with the inventory
- KECI (Korea) : On the inventory, or in compliance with the inventory
- PICCS (Philippines) : Not in compliance with the inventory
- IECSC (China) : On the inventory, or in compliance with the inventory
- NZioC (New Zealand) : Not in compliance with the inventory

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SWISS (Switzerland)	:	On the inventory, or in compliance with the inventory
EINECS (European Union)	:	On the inventory, or in compliance with the inventory
CICR (Turkey)	:	Not in compliance with the inventory
TECI (Thailand)	:	Not in compliance with the inventory

## 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

### Full text of H-Statements

H220	:	Extremely flammable gas.
H225	:	Highly flammable liquid and vapour.
H280	:	Contains gas under pressure; may explode if heated.
H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H351	:	Suspected of causing cancer.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
EUH066	:	Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Carc.	:	Carcinogenicity
Eye Irrit.	:	Eye irritation
Flam. Gas	:	Flammable gases
Flam. Liq.	:	Flammable liquids
Press. Gas	:	Gases under pressure
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2017/164/EU	:	Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	:	UK. Biological monitoring guidance values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2017/164/EU / STEL	:	Short term exposure limit
2017/164/EU / TWA	:	Limit Value - eight hours
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

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GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

### Classification of the mixture:

Aerosol 1	H222, H229
Eye Irrit. 2	H319
Carc. 2	H351
Aquatic Chronic 3	H412

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

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specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN