













# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 09.07.2013

Revision: 30.03.2021

Trade name: HL COIL BRITE

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- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**



Personal protective equipment must be selected to prevent inhalation of vapors and contact with skin and eyes. At a bare minimum, safety glasses, gloves, apron, and combination particle/vapor respirator should be worn. In some cases, supplied air, full body suits and boots will be needed.

The usual precautionary measures are to be adhered to when handling chemicals.

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 and skin.

Do not inhale dust / smoke / mist.

- **Respiratory protection:**

Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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.

- **Material of gloves**

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.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Fluorocarbon rubber (Viton)

- **Eye protection:**

Contact lenses should not be worn.

Safety glasses

- **Body protection:**

Use protective suit.

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Boots



Apron

Full head, face and neck protection

- **Limitation and supervision of exposure into the environment**  
No further relevant information available.
- **Risk management measures**  
See Section 7 for additional information.  
No further relevant information available.

## 9 Physical and chemical properties

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

#### · General Information

#### · Appearance:

Form: Crystalline powder

Colour: Pink

· Odour: Pungent

· Odour threshold: Not determined.

· pH-value at 20 °C: 3-3,5

#### · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

#### · Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure: Not applicable.

· Density at 20 °C: >1,1 g/cm<sup>3</sup>

· Relative density: Not determined.

· Vapour density: Not applicable.

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· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· <b>9.2 Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with metals forming hydrogen.  
Toxic fumes may be released if heated above the decomposition point.  
Corrosive action on metals.  
Violent reactions with strong alkalis and oxidizing agents.  
Attacks materials containing glass and silicate.  
Reacts with strong mineral acids forming hydrogen fluoride.
- **10.4 Conditions to avoid** Moisture.
- **10.5 Incompatible materials:** Contact with acids liberates toxic gases.
- **10.6 Hazardous decomposition products:**  
Hydrogen fluoride  
Sulphur oxides (SO<sub>x</sub>)  
Toxic metal oxide smoke

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:** Toxic and/or corrosive effects may be delayed up to 24 hours.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Toxic  
Corrosive

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure .

## 12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** The material is harmful to the environment.
- **12.2 Persistence and degradability**  
Inorganic product, is not eliminable from water by means of biological cleaning processes.
- **12.3 Bioaccumulative potential** May be accumulated in organism
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** After neutralization a reduction of the harming action may be recognized
- **Additional ecological information:**
- **General notes:**  
This statement was deduced from the properties of the single components.  
Avoid transfer into the environment.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.  
Toxic for aquatic organisms  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralized.  
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Dilute concentrate with water and neutralize afterwards with suitable material (lime or chalk). The formed salts are inert and pose little hazard.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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· Recommended cleansing agents: Water only.

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## 14 Transport information

· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN1727
· 14.2 UN proper shipping name · DOT · ADR  · IMDG, IATA	Ammonium Biflouride, Mixture 1727 AMMONIUM HYDROGENDIFLUORIDE, SOLID, MIXTURE AMMONIUM HYDROGENDIFLUORIDE, MIXTURE
· 14.3 Transport hazard class(es)  · DOT  	
· Class · Label	8 Corrosive substances. 8
· ADR  	
· Class · Label	8 (C2) Corrosive substances. 8
· IMDG, IATA  	
· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · DOT, ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups	Warning: Corrosive substances. 80 F-A,S-B Acids, ammonium compounds

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- |   |   |
|---|---|
| <b>· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                   |
| <b>· Transport/Additional information:</b>  |   |
| <b>· ADR</b>  |   |
| · Limited quantities (LQ)   | 1 kg  |
| · Transport category  | 2   |
| · Tunnel restriction code   | E   |
| <b>· UN "Model Regulation":</b>   | UN1727, AMMONIUM HYDROGENDIFLUORIDE, SOLID, 8, II |

### 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

<b>· Section 355 (extremely hazardous substances):</b>
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None of the ingredients is listed.

<b>· Section 313 (Specific toxic chemical listings):</b>
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81-88-9	9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride
---------	--

<b>· TSCA (Toxic Substances Control Act):</b>
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All ingredients are listed.

<b>· Proposition 65 (California):</b>
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<b>· Chemicals known to cause cancer:</b>
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81-88-9	9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride
---------	--

<b>· Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients is listed.

<b>· Chemicals known to cause reproductive toxicity for males:</b>
--

None of the ingredients is listed.

<b>· Chemicals known to cause developmental toxicity:</b>
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None of the ingredients is listed.

<b>· Carcinogenic Categories</b>
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<b>· EPA (Environmental Protection Agency)</b>
--

None of the ingredients is listed.

<b>· IARC (International Agency for Research on Cancer)</b>
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1341-49-7	ammonium bifluoride	3
81-88-9	9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride	3

<b>· TLV (Threshold Limit Value established by ACGIH)</b>
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1341-49-7	ammonium bifluoride	A4
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- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

151-21-3 | sodium dodecyl sulphate

- **15.2 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.

- **Relevant phrases**

H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

R21/22 Harmful in contact with skin and if swallowed.

R25 Toxic if swallowed.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

- **Sources**

SDS Prepared by:

ChemTel Inc.

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