SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name: ALOXIDE
Product code: GRAV 003.

1.2. Relevant identified uses of the substance or mixture and uses advised against
N/A

1.3. Details of the supplier of the safety data sheet
Registered company name: GRAVOTECH MARKING SAS.
Address: 56, avenue Jean Jaurès. 10600 La Chapelle Saint Luc. France.
Telephone: +33 (0)3 25 41 65 65. Fax: +33 (0)3 25 79 04 25.
e-mail: info@gravograph.fr http://www.gravograph.com

1.4. Emergency telephone number: +33 (0)1 45 42 59 59.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
In compliance with EC regulation No. 1272/2008 and its amendments.
Acute oral toxicity, Category 4 (Acute Tox. 4, H302).
Acute inhalation toxicity, Category 4 (Acute Tox. 4, H332).
Skin corrosion, Category 1A (Skin Corr. 1A, H314).
Serious eye damage, Category 1 (Eye Dam. 1, H318).
Skin sensitisation, Category 1 (Skin Sens. 1, H317).
Carcinogenicity, Category 1A (Carc. 1A, H350).
Reproductive toxicity, Category 1B (Repr. 1B, H360).
Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements
In compliance with EC regulation No. 1272/2008 and its amendments.
Hazard pictograms:

GHS07  GHS05  GHS09  GHS08

Signal Word: DANGER
Product identifiers:
CAS 7758-99-8 COPPER (II) SULFATE PENTAHYDRATE
EC 231-974-7 SELENIOUS ACID
028-009-00-5 NICKEL SULPHATE
Additional labeling: For professional use only.
Hazard statements:
H302 + H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H350i May cause cancer by inhalation.
H360D May damage the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure (if inhaled, if swallowed).
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe vapours.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.

Precautionary statements - Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER/doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Precautionary statements - Disposal:
P501 Dispose of contents/container at a disposal facility in accordance with local regulations.

2.3. Other hazards
The mixture does not contain substances classified as ‘Substances of Very High Concern’ (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table
The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Identification</th>
<th>(EC) 1272/2008</th>
<th>Note</th>
<th>%</th>
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<tr>
<td>CAS: 7758-99-8</td>
<td>GHS07, GHS09 Wng</td>
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<td>2.5 &lt;= x % &lt; 10</td>
</tr>
<tr>
<td>COPPER (II) SULFATE PENTAHYDRATE</td>
<td>Acute Tox. 4, H302</td>
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<tr>
<td></td>
<td>Skin Irrit. 2, H315</td>
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</tr>
<tr>
<td></td>
<td>Eye Irrit. 2, H319</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1, H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M Acute = 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 1, H410</td>
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<td>M Chronic = 1</td>
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</tr>
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<td></td>
<td>Acute Tox. 2, H330</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>STOT RE 2, H373</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1, H400</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>M Acute = 1</td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td>EC: 231-633-2</td>
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<tr>
<td>REACH: 01-2119485924-24</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PHOSPHORIC ACID</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:
In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.
If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.
If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.
Do not proceed with mouth-to-mouth or mouth-to-nose resuscitation. Use the appropriate equipment.

In the event of splashes or contact with eyes:
Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin:
Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
Remove any soiled or splashed clothing immediately.
Watch out for any remaining product between skin and clothing, watches, shoes, etc.
In the event of an allergic reaction, seek medical attention.
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing:
Do not give the patient anything orally.
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor.
Seek medical attention immediately, showing the label.
If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed
No data available.

4.3. Indication of any immediate medical attention and special treatment needed
No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media
No data available.
5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:
- fluorine (F₂)
N/A
N/A

5.3. Advice for firefighters

No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid inhaling the vapors.
Avoid any contact with the skin and eyes.
If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

Avoid exposure to pregnant women and warn women of child-bearing age of the possible risks

7.1. Precautions for safe handling

Always wash hands after handling.
Remove and wash contaminated clothing before re-using.
Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention:
Handle in well-ventilated areas.
Prevent access by unauthorised personnel.

Recommended equipment and procedures:
For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.
Do not inhale vapours.
Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
Provide vapor extraction at the emission source and also general ventilation of the premises.
Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.
In all cases, recover emissions at source.
Avoid exposure - obtain special instructions before use.

Prohibited equipment and procedures:
No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.
Keep away from food and drink, including those for animals.
SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :


<table>
<thead>
<tr>
<th>CAS</th>
<th>VME-mg/m³</th>
<th>VME-ppm</th>
<th>VLE-mg/m³</th>
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<td>2</td>
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- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

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<thead>
<tr>
<th>CAS</th>
<th>TWA :</th>
<th>STEL :</th>
<th>Ceiling :</th>
<th>Definition :</th>
<th>Criteria :</th>
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</table>

- Germany - AGW (BAuA - TRGS 900, 21/06/2010):

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<th>VME :</th>
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- Belgium (Order of 19/05/2009, 2010):

<table>
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<th>Ceiling :</th>
<th>Definition :</th>
<th>Criteria :</th>
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</table>

- France (INRS - ED984 :2012):

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<th>VME-mg/m³ :</th>
<th>VLE-ppm :</th>
<th>VLE-mg/m³ :</th>
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<td>37, 37 bis</td>
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- Switzerland (SUVA 2015):

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<th>VLE</th>
<th>Valeur plafond</th>
<th>Notations</th>
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<tbody>
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<table>
<thead>
<tr>
<th>CAS</th>
<th>TWA :</th>
<th>STEL :</th>
<th>Ceiling :</th>
<th>Definition :</th>
<th>Criteria :</th>
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<tbody>
<tr>
<td>7664-38-2</td>
<td>1 mg/m³</td>
<td>2 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):

Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.
Use eye protectors designed to protect against liquid splashes
Before handling, wear safety goggles with protective sides accordance with standard EN166.
In the event of high danger, protect the face with a face shield.
Prescription glasses are not considered as protection.
Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.
Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Gloves must be selected according to the application and duration of use at the workstation.
Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.
Type of gloves recommended :
- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (isobutylene-isoprene copolymer)
Recommended properties:
- Impervious gloves in accordance with standard EN374

- **Body protection**
  
  Avoid skin contact.
  
  Wear suitable protective clothing.
  
  Suitable type of protective clothing:
  
  In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.
  
  In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.
  
  Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.
  
  Work clothing worn by personnel shall be laundered regularly.
  
  After contact with the product, all parts of the body that have been soiled must be washed.

- **Respiratory protection**
  
  Avoid breathing vapours.
  
  If the ventilation is insufficient, wear appropriate breathing apparatus.
  
  When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

---

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Fluid liquid.</td>
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<td>Colour</td>
<td>Blue.</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless.</td>
</tr>
<tr>
<td>pH</td>
<td>Not stated.</td>
</tr>
<tr>
<td>Flash point interval</td>
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</tr>
<tr>
<td>Vapour pressure (50°C)</td>
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<tr>
<td>Density</td>
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<td>Water solubility</td>
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<tr>
<td>Evaporation rate</td>
<td>&lt; 1 (Ethyl Ether)</td>
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</tbody>
</table>

9.2. Other information

No data available.

---

**SECTION 10 : STABILITY AND REACTIVITY**

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid:
- frost

10.5. Incompatible materials

N/A

10.6. Hazardous decomposition products

The thermal decomposition may release/form:
- fluorine (F2)

N/A

---

**SECTION 11 : TOXICOLOGICAL INFORMATION**

11.1. Information on toxicological effects

Harmful if swallowed.

Harmful by inhalation.
May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure for up to three minutes. Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to Blanching of the skin, complete areas of alopecia, and scars. May cause an allergic reaction by skin contact. Known human carcinogen by inhalation. Presumed human reproductive toxicant. May damage the unborn child. May cause severe damage to organs in the event of repeated or prolonged exposure.

11.1.1. Substances
No toxicological data available for the substances.

11.1.2. Mixture
Skin corrosion/skin irritation:
Corrosive classification is based on an extreme pH value.

SECTION 12 : ECOLOGICAL INFORMATION
Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.

12.1. Toxicity
12.1.2. Mixtures
No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
No data available.

German regulations concerning the classification of hazards for water (WGK):
WGK 3 (VwVwS vom 27/07/2005, KBws) : Extremely hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS
Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods
Do not pour into drains or waterways.

Waste:
Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:
Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

14.1. UN number
2922

14.2. UN proper shipping name
UN2922=CORROSIVE LIQUID, TOXIC, N.O.S. (phosphoric acid ...%, selenious acid)

14.3. Transport hazard class(es)
**SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)**

**ALOXIDE - GRAV003**

---

**14.4. Packing group**

Packing group I

**14.5. Environmental hazards**

- Environmentally hazardous material:

---

**14.6. Special precautions for user**

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<th>Code</th>
<th>Pack gr.</th>
<th>Label</th>
<th>Ident.</th>
<th>LQ</th>
<th>Provis.</th>
<th>EQ</th>
<th>Cat.</th>
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</table>

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.
For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

---

**SECTION 15 : REGULATORY INFORMATION**

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

- Classification and labelling information included in section 2:

  The following regulations have been used:

  - EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
  - EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
  - EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

- Container information:

  No data available.

**Usage restrictions apply to the product**: See annex XVII of EC regulation No. 1907/2006.

  For professional users only.

- **Particular provisions**:

  No data available.

- **German regulations concerning the classification of hazards for water (WGK)**:

  WGK 3 (VvVwS vom 27/07/2005, KBws) : Extremely hazardous for water.

- **Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704)**:

  NFPA 704, Labelling: Health=3 Inflammability=1 Instability/Reactivity=1 Specific Risk=none
15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H302 + H332 | Harmful if swallowed or inhaled. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H341 | Suspected of causing genetic defects. |
| H350i | May cause cancer by inhalation. |
| H360D | May damage the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Abbreviations :

CMR: Carcinogenic, mutagenic or reprotoxic.
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefahrdungsklasse (Water Hazard Class).
GHS05 : Corrosion
GHS07 : Exclamation mark
GHS08 : Health hazard
GHS09 : Environment
PBT : Persistent, bioaccumulative and toxic.
vPvB : Very persistent, very bioaccumulative.
SVHC : Substances of very high concern.