



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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BONDERITE M-CR 1200 AERO 10KG known as Alodine 1200 SEAU  
10K

SDS No. : 46682  
V017.0

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

#### 1.1. Product identifier

BONDERITE M-CR 1200 AERO 10KG known as Alodine 1200 SEAU 10K

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

Intended use:

Chromating Products for Metals

Surface treatment for applications in the aeronautics and aerospace industries, unrelated to functional chrome plating or functional chrome plating with decorative character, where any of the following key functionalities is necessary for the intended use: corrosion resistance / active corrosion inhibition, chemical resistance, hardness, adhesion promotion (adhesion to subsequent coating or paint), temperature resistance, resistance to embrittlement, wear resistance, surface properties impeding deposition of organisms, layer thickness, flexibility, and resistivity

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

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

[SDSinfo.Adhesive@henkel.com](mailto:SDSinfo.Adhesive@henkel.com)

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (CLP):

|                                                                                                                                          |             |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Acute toxicity<br>H301 Toxic if swallowed.<br>Route of Exposure: Oral                                                                    | Category 3  |
| Acute toxicity<br>H331 Toxic if inhaled.<br>Route of Exposure: Inhalation                                                                | Category 3  |
| Acute toxicity<br>H310 Fatal in contact with skin.<br>Route of Exposure: Dermal                                                          | Category 2  |
| Skin corrosion<br>H314 Causes severe skin burns and eye damage.                                                                          | Category 1A |
| Serious eye damage<br>H318 Causes serious eye damage.                                                                                    | Category 1  |
| Respiratory sensitizer<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.                                | Category 1  |
| Skin sensitizer<br>H317 May cause an allergic skin reaction.                                                                             | Category 1  |
| Germ cell mutagenicity<br>H340 May cause genetic defects.                                                                                | Category 1B |
| Carcinogenicity<br>H350 May cause cancer.                                                                                                | Category 1A |
| Toxic to reproduction<br>H361f Suspected of damaging fertility.                                                                          | Category 2  |
| Specific target organ toxicity - single exposure<br>H335 May cause respiratory irritation.<br>Target organ: respiratory tract irritation | Category 3  |
| Specific target organ toxicity - repeated exposure<br>H372 Causes damage to organs through prolonged or repeated exposure.               | Category 1  |
| Acute hazards to the aquatic environment<br>H400 Very toxic to aquatic life.                                                             | Category 1  |
| Chronic hazards to the aquatic environment<br>H410 Very toxic to aquatic life with long lasting effects.                                 | Category 1  |

### 2.2. Label elements

#### Label elements (CLP):

##### Hazard pictogram:



##### Contains

Sodium tetrafluoroborate

Chromium trioxide

Dipotassium hexafluorozirconate

##### Signal word:

Danger

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statement:</b>                       | H340 May cause genetic defects.<br>H350 May cause cancer.<br>H301 Toxic if swallowed.<br>H310 Fatal in contact with skin.<br>H314 Causes severe skin burns and eye damage.<br>H317 May cause an allergic skin reaction.<br>H331 Toxic if inhaled.<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>H335 May cause respiratory irritation.<br>H361f Suspected of damaging fertility.<br>H372 Causes damage to organs through prolonged or repeated exposure.<br>H410 Very toxic to aquatic life with long lasting effects. |
| <b>Supplemental information</b>                | EUH032 Contact with acids liberates very toxic gas.<br>Restricted to professional users.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Precautionary statement:<br/>Prevention</b> | P201 Obtain special instructions before use.<br>P260 Do not breathe dusts or mists.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Precautionary statement:<br/>Response</b>   | P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P310 Immediately call a POISON CENTER or doctor.                                                                                                                                                             |

**Authorisation Numbers :** REACH/20/18/17

### 2.3. Other hazards

None if used properly.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.                  | Concentration | Classification                                                                                                                                                                                                                                                                                                | Specific Conc. Limits, M-factors and ATEs                                                                               | Add. Information |
|--------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------|
| Sodium tetrafluoroborate<br>13755-29-8<br>237-340-6<br>01-2120770718-42        | 40- 60 %      | Skin Corr. 1B, H314<br>Eye Dam. 1, H318                                                                                                                                                                                                                                                                       |                                                                                                                         | EU OEL           |
| Chromium trioxide<br>1333-82-0<br>215-607-8<br>01-2119458868-17                | 20- 35 %      | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Ox. Sol. 1, H271<br>Acute Tox. 3, Oral, H301<br>Acute Tox. 2, Dermal, H310<br>Acute Tox. 2, Inhalation, H330<br>Skin Corr. 1A, H314<br>Skin Sens. 1, H317<br>Resp. Sens. 1, H334<br>Muta. 1B, H340<br>Carc. 1A, H350<br>Repr. 2, H361f<br>STOT RE 1, H372 | STOT SE 3; H335; C >= 1 %<br>=====<br>M acute = 1<br>M chronic = 1<br>=====<br>inhalation:ATE = 0,186<br>mg/l;dust/mist | SVHC             |
| Tripotassium hexacyanoferrate<br>13746-66-2<br>237-323-3<br>01-2120787462-46   | 10- 20 %      | Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411                                                                                                                                                                                                                                                                 |                                                                                                                         |                  |
| Dipotassium hexafluorozirconate<br>16923-95-8<br>240-985-6<br>01-2119978269-18 | 10- 20 %      | Acute Tox. 3, Oral, H301<br>Eye Dam. 1, H318                                                                                                                                                                                                                                                                  | oral:ATE = 51 mg/kg                                                                                                     | EU OEL           |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

Remove person from dust-contaminated zone.

Immediate medical treatment necessary.

**Skin contact:**

Immediately rinse with copious amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital.

**Eye contact:**

Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

**Ingestion:**

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

Immediate medical treatment necessary.

**4.2. Most important symptoms and effects, both acute and delayed**

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

Causes burns.

**4.3. Indication of any immediate medical attention and special treatment needed**

See section: Description of first aid measures

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**

Carbon dioxide, foam, powder

Water spray jet

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in fires.

**5.3. Advice for firefighters**

Wear protective equipment.

Wear self-contained breathing apparatus.

**Additional information:**

The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Keep unprotected persons away.

Avoid dust formation.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

Do not use any organic materials (e.g. sawmill waste).

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid dust formation.

When diluting, always stir slowly the product into standing water.

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

See advice in section 8

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Hygiene measures:

Do not eat, drink or smoke when using this product.

Wash hands before work breaks and after finishing work.

Wash contaminated clothing before reuse.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container.

Do not store near sources of heat or ignition, or reactive materials.

Must be stored in a room with spill collection facilities.

Store in a cool, dry place.

Keep container tightly sealed.

Keep container in a well ventilated place.

Do not use packing made of metal.

Keep away from heat and direct sunlight.

Do not store together with strong bases or very alkaline substances.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**7.3. Specific end use(s)**

Chromating Products for Metals

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Germany

| Ingredient [Regulated substance]                                                       | ppm | mg/m <sup>3</sup> | Value type                                       | Short term exposure limit category / Remarks                                                                                                   | Regulatory list |
|----------------------------------------------------------------------------------------|-----|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Sodium tetrafluoroborate<br>13755-29-8<br>[FLUORIDES, INORGANIC]                       |     | 2,5               | Time Weighted Average (TWA):                     | Indicative                                                                                                                                     | ECTLV           |
| Sodium tetrafluoroborate<br>13755-29-8                                                 |     | 1                 | Exposure limit(s):                               | 4<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| Sodium tetrafluoroborate<br>13755-29-8                                                 |     |                   | Skin designation:                                | Can be absorbed through the skin.                                                                                                              | TRGS 900        |
| Sodium tetrafluoroborate<br>13755-29-8                                                 |     |                   | Short Term Exposure Classification:              | Category II: substances with a resorptive effect.                                                                                              | TRGS 900        |
| Sodium tetrafluoroborate<br>13755-29-8                                                 |     | 1                 | Exposure limit(s):                               | 4<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| Sodium tetrafluoroborate<br>13755-29-8                                                 |     |                   | Skin designation:                                | Can be absorbed through the skin.                                                                                                              | TRGS 900        |
| Sodium tetrafluoroborate<br>13755-29-8                                                 |     |                   | Short Term Exposure Classification:              | Category II: substances with a resorptive effect.                                                                                              | TRGS 900        |
| Chromium trioxide<br>1333-82-0<br>[CHROMIUM (VI) COMPOUNDS]                            |     | 0,005             | Time Weighted Average (TWA):                     | This limit does not apply until: 17 January 2025                                                                                               | EU OELIII       |
| Chromium trioxide<br>1333-82-0<br>[CHROMIUM (VI) COMPOUNDS, AS CHROMIUM, FUMES]        |     | 0,025             | Time Weighted Average (TWA):                     |                                                                                                                                                | EU OELIII       |
| Chromium trioxide<br>1333-82-0<br>[CHROMIUM (VI) COMPOUNDS]                            |     | 0,01              | Time Weighted Average (TWA):                     |                                                                                                                                                | EU OELIII       |
| Chromium trioxide<br>1333-82-0<br>[CHROMIUM (VI) COMPOUNDS]                            |     | 0,025             | Time Weighted Average (TWA):                     |                                                                                                                                                | EU OELIII       |
| Chromium trioxide<br>1333-82-0                                                         |     | 2                 | Exposure limit(s):                               | 1                                                                                                                                              | TRGS 900        |
| Chromium trioxide<br>1333-82-0                                                         |     |                   | Short Term Exposure Classification:              | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900        |
| Chromium trioxide<br>1333-82-0<br>[Chromium VI compounds (Inhalable Fraction) (as Cr)] |     |                   | Tolerance Concentration (4 x 10 <sup>-3</sup> ): |                                                                                                                                                | TRGS 910        |
| Chromium trioxide<br>1333-82-0<br>[Chromium VI compounds (Inhalable Fraction) (as Cr)] |     |                   | Excursion factor:                                | 8<br>Factor by which the average shift value (SMW) can be exceeded four times per shift during a maximum. period of 15 minutes each.           | TRGS 910        |
| Dipotassium hexafluorozirconate<br>16923-95-8<br>[FLUORIDES, INORGANIC]                |     | 2,5               | Time Weighted Average (TWA):                     | Indicative                                                                                                                                     | ECTLV           |
| Dipotassium hexafluorozirconate<br>16923-95-8                                          |     |                   | Short Term Exposure Classification:              | Category II: substances with a resorptive effect.                                                                                              | TRGS 900        |
| Dipotassium hexafluorozirconate<br>16923-95-8                                          |     |                   | Skin designation:                                | Can be absorbed through the skin.                                                                                                              | TRGS 900        |

|                                               |  |   |                                     |                                                                                                                    |          |
|-----------------------------------------------|--|---|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------|
| Dipotassium hexafluorozirconate<br>16923-95-8 |  | 1 | Exposure limit(s):                  | 4<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Dipotassium hexafluorozirconate<br>16923-95-8 |  |   | Skin designation:                   | Can be absorbed through the skin.                                                                                  | TRGS 900 |
| Dipotassium hexafluorozirconate<br>16923-95-8 |  | 1 | Exposure limit(s):                  | 4<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Dipotassium hexafluorozirconate<br>16923-95-8 |  |   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.                                                                  | TRGS 900 |

**Predicted No-Effect Concentration (PNEC):**

| Name on list                                  | Environmental Compartment       | Exposure period | Value      |     |                |            | Remarks |
|-----------------------------------------------|---------------------------------|-----------------|------------|-----|----------------|------------|---------|
|                                               |                                 |                 | mg/l       | ppm | mg/kg          | others     |         |
| Sodium tetrafluoroborate<br>13755-29-8        | aqua<br>(freshwater)            |                 | 2 mg/l     |     |                |            |         |
| Sodium tetrafluoroborate<br>13755-29-8        | aqua (marine water)             |                 | 0,2 mg/l   |     |                |            |         |
| Sodium tetrafluoroborate<br>13755-29-8        | sewage treatment plant (STP)    |                 | 55 mg/l    |     |                |            |         |
| Chromium trioxide<br>1333-82-0                | aqua<br>(freshwater)            |                 | 0,003 mg/l |     |                |            |         |
| Chromium trioxide<br>1333-82-0                | aqua (marine water)             |                 | 0,003 mg/l |     |                |            |         |
| Chromium trioxide<br>1333-82-0                | sewage treatment plant (STP)    |                 | 0,21 mg/l  |     |                |            |         |
| Chromium trioxide<br>1333-82-0                | sediment<br>(freshwater)        |                 |            |     | 0,15 mg/kg     |            |         |
| Chromium trioxide<br>1333-82-0                | sediment<br>(marine water)      |                 |            |     |                | 0,15 ng/kg |         |
| Chromium trioxide<br>1333-82-0                | Soil                            |                 |            |     | 0,031 mg/kg    |            |         |
| Chromium trioxide<br>1333-82-0                | oral                            |                 |            |     | 17000000 mg/kg |            |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | aqua<br>(freshwater)            |                 | 0,163 mg/l |     |                |            |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | aqua (marine water)             |                 | 0,163 mg/l |     |                |            |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | aqua<br>(intermittent releases) |                 | 0,107 mg/l |     |                |            |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | sediment<br>(freshwater)        |                 |            |     | 28,86 mg/kg    |            |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | sediment<br>(marine water)      |                 |            |     | 5,77 mg/kg     |            |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | Soil                            |                 |            |     | 22,5 mg/kg     |            |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | sewage treatment plant (STP)    |                 | 1,77 mg/l  |     |                |            |         |



**Derived No-Effect Level (DNEL):**

| Name on list                                  | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value                  | Remarks |
|-----------------------------------------------|--------------------|-------------------|----------------------------------------------|---------------|------------------------|---------|
| Chromium trioxide<br>1333-82-0                | Workers            | Inhalation        | Acute/short term exposure - local effects    |               | 0,01 mg/m <sup>3</sup> |         |
| Chromium trioxide<br>1333-82-0                | Workers            | Inhalation        | Long term exposure - local effects           |               | 0,01 mg/m <sup>3</sup> |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | Workers            | inhalation        | Long term exposure - systemic effects        |               | 6,2 mg/m <sup>3</sup>  |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 6,2 mg/m <sup>3</sup>  |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | Workers            | inhalation        | Long term exposure - local effects           |               | 6,2 mg/m <sup>3</sup>  |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | Workers            | dermal            | Long term exposure - systemic effects        |               | 89 mg/kg               |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 89 mg/kg               |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | General population | dermal            | Long term exposure - systemic effects        |               | 44,5 mg/kg             |         |
| Dipotassium hexafluorozirconate<br>16923-95-8 | General population | dermal            | Acute/short term exposure - systemic effects |               | 44,5 mg/kg             |         |

**Biological Exposure Indices:**

| Ingredient [Regulated substance]                                                            | Parameters | Biological specimen | Sampling time                | Conc.    | Basis of biol. exposure index | Remark | Additional Information |
|---------------------------------------------------------------------------------------------|------------|---------------------|------------------------------|----------|-------------------------------|--------|------------------------|
| Sodium tetrafluoroborate<br>13755-29-8<br>[Inorganic fluorine compounds (fluorides)]        | Fluoride   | Urine               | Sampling time: End of shift. | 4,0 mg/l | DE BGW                        |        |                        |
| Dipotassium hexafluorozirconate<br>16923-95-8<br>[Inorganic fluorine compounds (fluorides)] | Fluoride   | Urine               | Sampling time: End of shift. | 4,0 mg/l | DE BGW                        |        |                        |

**8.2. Exposure controls:**

Engineering controls:  
Thorough dedusting.

Respiratory protection:

In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Fluorinated rubber (FKM; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Fluorinated rubber (FKM; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:  
Protective eye equipment should conform to EN166.  
Goggles which can be tightly sealed.

Skin protection:  
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.  
Protective clothing that covers arms and legs.

Advices to personal protection equipment:  
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.  
Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

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

|                                                              |                                                                                                                                     |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Delivery form                                                | solid material                                                                                                                      |
| Colour                                                       | brown, up to, reddish                                                                                                               |
| Odor                                                         | no valuation                                                                                                                        |
| Physical state                                               | solid                                                                                                                               |
| Melting point                                                | Not available.                                                                                                                      |
| Solidification temperature                                   | Not applicable, Product is a solid.                                                                                                 |
| Initial boiling point                                        | Not available.                                                                                                                      |
| Flammability                                                 | non flammable                                                                                                                       |
| Explosive limits                                             | Not applicable, Product is a solid.                                                                                                 |
| Flash point                                                  | Not applicable, Product is a solid.                                                                                                 |
| Auto-ignition temperature                                    | Not applicable, Product is a solid.                                                                                                 |
| Decomposition temperature                                    | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH                                                           | 1,2 - 1,8 PH-value, potentiometer                                                                                                   |
| (20 °C (68 °F); Conc.: 15 g/l; Solvent: Demineralised water) |                                                                                                                                     |
| Viscosity (kinematic)                                        | Not applicable, Product is a solid.                                                                                                 |
| Solubility (qualitative)                                     | fully soluble                                                                                                                       |
| (20 °C (68 °F); Solvent: Water)                              |                                                                                                                                     |
| Partition coefficient: n-octanol/water                       | Not applicable                                                                                                                      |
|                                                              | Mixture                                                                                                                             |
| Vapour pressure                                              | Not applicable                                                                                                                      |
| Density                                                      | 2,28 g/cm <sup>3</sup> no method / method unknown                                                                                   |
| (20 °C (68 °F))                                              |                                                                                                                                     |
| Relative vapour density:                                     | Not applicable, Product is a solid.                                                                                                 |
| Particle characteristics                                     | Currently under determination                                                                                                       |

### 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reaction with strong bases

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

No decomposition if used according to specifications.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

None if used for intended purpose.

In case of fire toxic gases can be released.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                  | Value<br>type                          | Value               | Species | Method                                                            |
|--------------------------------------------------|----------------------------------------|---------------------|---------|-------------------------------------------------------------------|
| Sodium tetrafluoroborate<br>13755-29-8           | LD50                                   | > 2.000 mg/kg       | rat     | not specified                                                     |
| Chromium trioxide<br>1333-82-0                   | LD50                                   | 52 mg/kg            | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Tripotassium<br>hexacyanoferrate<br>13746-66-2   | LD50                                   | 2.970 mg/kg         | rat     | not specified                                                     |
| Dipotassium<br>hexafluorozirconate<br>16923-95-8 | LD50                                   | > 25 - 200<br>mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| Dipotassium<br>hexafluorozirconate<br>16923-95-8 | Acute<br>toxicity<br>estimate<br>(ATE) | 51 mg/kg            |         | Expert judgement                                                  |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value    | Species | Method                                                              |
|---------------------------------|---------------|----------|---------|---------------------------------------------------------------------|
| Chromium trioxide<br>1333-82-0  | LD50          | 57 mg/kg | rabbit  | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type                          | Value      | Test atmosphere | Exposure<br>time | Species | Method           |
|---------------------------------|----------------------------------------|------------|-----------------|------------------|---------|------------------|
| Chromium trioxide<br>1333-82-0  | Acute<br>toxicity<br>estimate<br>(ATE) | 0,186 mg/l | dust/mist       | 4 h              |         | Expert judgement |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                | Result                     | Exposure<br>time | Species                                                                               | Method                                                                                            |
|------------------------------------------------|----------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Sodium tetrafluoroborate<br>13755-29-8         | Category 1B<br>(corrosive) | 1 h              |                                                                                       | OECD Guideline 435 (In Vitro Membrane Barrier Test<br>Method for Skin Corrosion)                  |
| Chromium trioxide<br>1333-82-0                 | corrosive                  | 24 h             | rabbit                                                                                | not specified                                                                                     |
| Tripotassium<br>hexacyanoferrate<br>13746-66-2 | not irritating             | 15 min           | Human,<br>EpiSkin <sup>TM</sup><br>(SM),<br>Reconstructed<br>Human<br>Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation:<br>Reconstructed Human Epidermis (RHE) Test Method) |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                  | Result                                                | Exposure<br>time | Species | Method                                                |
|--------------------------------------------------|-------------------------------------------------------|------------------|---------|-------------------------------------------------------|
| Chromium trioxide<br>1333-82-0                   | corrosive                                             |                  | rabbit  | not specified                                         |
| Tripotassium<br>hexacyanoferrate<br>13746-66-2   | irritating                                            |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Dipotassium<br>hexafluorozirconate<br>16923-95-8 | Category 1<br>(irreversible<br>effects on the<br>eye) |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

No data available.

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method        |
|---------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|---------------|
| Chromium trioxide<br>1333-82-0  | positive | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | not specified |

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

No data available.

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value    | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method        |
|---------------------------------|-------------------|-------------------------|----------------------------------------------|---------|---------------|
| Chromium trioxide<br>1333-82-0  | NOAEL 0,0007 mg/l | inhalation              | 90 days<br>taeglich 20 Stunden               | rat     | not specified |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains / surface water / ground water.

Locally harmful for aquatic and landliving organisms because of low pH and corrosive properties.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No.                  | Value type | Value      | Exposure time | Species                                      | Method                                                   |
|-----------------------------------------------|------------|------------|---------------|----------------------------------------------|----------------------------------------------------------|
| Sodium tetrafluoroborate<br>13755-29-8        | LC50       | 144 mg/l   | 96 h          | Brachydanio rerio (new name:<br>Danio rerio) | not specified                                            |
| Chromium trioxide<br>1333-82-0                | LC50       | 52 mg/l    | 96 h          | Carassius auratus                            | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Chromium trioxide<br>1333-82-0                | NOEC       | 0,105 mg/l | 60 d          | Salvelinus namaycush                         | OECD Guideline 210 (fish early lite stage toxicity test) |
| Tripotassium hexacyanoferrate<br>13746-66-2   | LC50       | > 100 mg/l | 96 h          | Cyprinus carpio                              | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Dipotassium hexafluorozirconate<br>16923-95-8 | LC50       | 172,4 mg/l | 96 h          | Brachydanio rerio (new name:<br>Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test)           |

#### Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No.                  | Value type | Value      | Exposure time | Species       | Method                                                     |
|-----------------------------------------------|------------|------------|---------------|---------------|------------------------------------------------------------|
| Sodium tetrafluoroborate<br>13755-29-8        | EC50       | 970 mg/l   | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Tripotassium hexacyanoferrate<br>13746-66-2   | EC50       | 59 mg/l    | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Dipotassium hexafluorozirconate<br>16923-95-8 | EC50       | 151,4 mg/l | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

#### Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No.           | Value type | Value    | Exposure time | Species       | Method                                      |
|----------------------------------------|------------|----------|---------------|---------------|---------------------------------------------|
| Sodium tetrafluoroborate<br>13755-29-8 | NOEC       | 100 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.               | Value<br>type | Value      | Exposure time | Species                                                     | Method                                            |
|-----------------------------------------------|---------------|------------|---------------|-------------------------------------------------------------|---------------------------------------------------|
| Sodium tetrafluoroborate<br>13755-29-8        | EC50          | 350 mg/l   | 96 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09                                      |
| Chromium trioxide<br>1333-82-0                | EC50          | 0,5 mg/l   | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tripotassium hexacyanoferrate<br>13746-66-2   | EC50          | 3,1 mg/l   | 72 h          | Pseudokirchneriella subcapitata                             | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tripotassium hexacyanoferrate<br>13746-66-2   | EC10          | 0,14 mg/l  | 72 h          | Pseudokirchneriella subcapitata                             | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Dipotassium hexafluorozirconate<br>16923-95-8 | EC50          | 10,66 mg/l | 72 h          | Pseudokirchneriella subcapitata                             | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Dipotassium hexafluorozirconate<br>16923-95-8 | EC10          | 1,63 mg/l  | 72 h          | Pseudokirchneriella subcapitata                             | OECD Guideline 201 (Alga, Growth Inhibition Test) |

#### Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.             | Value<br>type | Value        | Exposure time | Species                                             | Method                                                             |
|---------------------------------------------|---------------|--------------|---------------|-----------------------------------------------------|--------------------------------------------------------------------|
| Sodium tetrafluoroborate<br>13755-29-8      | EC0           | 35 mg/l      | 16 h          |                                                     | not specified                                                      |
| Chromium trioxide<br>1333-82-0              | EC0           | 1 mg/l       |               |                                                     | not specified                                                      |
| Tripotassium hexacyanoferrate<br>13746-66-2 | EC50          | > 1.000 mg/l | 3 h           | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

#### 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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.               | PBT / vPvB                                                                                                                      |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Sodium tetrafluoroborate<br>13755-29-8        | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |
| Chromium trioxide<br>1333-82-0                | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |
| Dipotassium hexafluorozirconate<br>16923-95-8 | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |

### 12.6. Endocrine disrupting properties

not applicable

### 12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.



**SECTION 14: Transport information****14.1. UN number or ID number**

|      |      |
|------|------|
| ADR  | 3290 |
| RID  | 3290 |
| ADN  | 3290 |
| IMDG | 3290 |
| IATA | 3290 |

**14.2. UN proper shipping name**

|      |                                                                                          |
|------|------------------------------------------------------------------------------------------|
| ADR  | TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (Chromium trioxide,Sodium tetra fluoro borate) |
| RID  | TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (Chromium trioxide,Sodium tetra fluoro borate) |
| ADN  | TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (Chromium trioxide,Sodium tetra fluoro borate) |
| IMDG | TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (Chromium trioxide,Sodium tetra fluoro borate) |
| IATA | Toxic solid, corrosive, inorganic, n.o.s. (Chromium trioxide,Sodium tetra fluoro borate) |

**14.3. Transport hazard class(es)**

|      |         |
|------|---------|
| ADR  | 6.1 (8) |
| RID  | 6.1 (8) |
| ADN  | 6.1 (8) |
| IMDG | 6.1 (8) |
| IATA | 6.1 (8) |

**14.4. Packing group**

|      |    |
|------|----|
| ADR  | II |
| RID  | II |
| ADN  | II |
| IMDG | II |
| IATA | II |

**14.5. Environmental hazards**

|      |                           |
|------|---------------------------|
| ADR  | Environmentally Hazardous |
| RID  | Environmentally Hazardous |
| ADN  | Environmentally Hazardous |
| IMDG | Marine Pollutant          |
| IATA | not applicable            |

**14.6. Special precautions for user**

|      |                                     |
|------|-------------------------------------|
| ADR  | not applicable<br>Tunnelcode: (D/E) |
| RID  | not applicable                      |
| ADN  | not applicable                      |
| IMDG | not applicable                      |
| IATA | not applicable                      |

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

## SECTION 15: Regulatory information

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

|                                                                 |                |
|-----------------------------------------------------------------|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | Not applicable |

### Specific Conditions and Monitoring requirements for authorised uses

Authorisation valid for

CAS 1333-82-0

Chromium trioxide

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Authorisation Numbers :</p> <p>Authorised Use</p> | <p><b>REACH/20/18/17</b></p> <p>Surface treatment for applications in the aeronautics and aerospace industries, unrelated to functional chrome plating or functional chrome plating with decorative character, where any of the following key functionalities is necessary for the intended use: corrosion resistance / active corrosion inhibition, chemical resistance, hardness, adhesion promotion (adhesion to subsequent coating or paint), temperature resistance, resistance to embrittlement, wear resistance, surface properties impeding deposition of organisms, layer thickness, flexibility, and resistivity</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>Monitoring Requirements</p>                       | <p>The authorisation holders and the downstream users shall implement the following monitoring programmes for chromium (VI):</p> <p>(a) At least annual air monitoring programmes on occupational exposure to chromium (VI) in accordance with Article 5(5)(e) of Directive 2004/37/EC. The first measurements shall be performed without delay and at the latest on 18 June 2021. Those programmes shall be based on relevant standard methodologies or protocols and be representative of:</p> <p>(i) the range of tasks undertaken where exposure to chromium is possible, including tasks involving process and maintenance workers;</p> <p>(ii) the operational conditions and risk management measures typical for each of those tasks;</p> <p>(iii) the number of workers potentially exposed;</p> <p>(b) At least annual monitoring programmes for chromium (VI) emissions into wastewater and air from local exhaust ventilation. Those programmes shall be based on relevant standard methodologies or protocols and be representative of the operational conditions and risk management measures (such as waste water treatment systems, gaseous emission abatement techniques) used at the individual sites where relevant measurements are carried out.</p> <p>The downstream users shall make available to the Agency the information collected from the monitoring programmes as described above, including the contextual information related to each set of measurements, in the format of the template available on the ECHA website <a href="http://www.echa.europa.eu/web/guest/support/dossier-submission-tools/reach-it/downstream-user-authorized-use">www.echa.europa.eu/web/guest/support/dossier-submission-tools/reach-it/downstream-user-authorized-use</a>, for the first time by 18 December 2021, for transmission to the authorisation holders for the purpose of verifying and validating the exposure scenarios and for the preparation of the review report.</p> |
| <p>Conditions</p>                                    | <p>The conditions set out in the following paragraphs shall apply to the authorisation bearing numbers REACH/20/18/0 to REACH/20/18/27.</p> <p>1. The authorisation holders shall make available the specific exposure scenarios to the downstream users to whom this Decision applies by virtue of Article 56(2) of Regulation (EC) No 1907/2006 ('downstream users'), in an updated safety data sheet, at the latest on 18 March 2021. The authorisation holders and the downstream users shall apply the risk management measures and operational conditions included in the specific exposure scenarios without undue delay.</p> <p>2. The authorisation holders shall verify and validate the specific exposure scenarios referred to in paragraph 2 at the latest on 18 June 2022 by making an analysis of tasks, using exposure and emission data measured by downstream users and related contextual information and by means of monitoring programmes of occupational exposure and environmental releases measurements, relating to all processes described for the authorised uses. The validated and verified exposure scenarios shall immediately be made available to the downstream users.</p> <p>3. The information to be made available to downstream users as referred to in</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

paragraphs 1 and 2 shall include detailed guidance on how to select and apply risk management measures. The authorisation holders and the downstream users shall submit that information to the competent authorities of the Member States where the authorised uses take place upon request.

The authorisation bearing numbers REACH/20/18/14 to REACH/20/18/27 shall be subject to the following condition: as regards spraying operations, the downstream users shall apply the risk management measures and operational conditions set out in the Annex. The area in which spraying operations take place shall be restricted either physically by means of barriers and signalling or through the implementation of strict procedures during the activity, which shall continue being applied for a specified time after the spray application has ceased. Workers shall not remove the respiratory protective equipment (RPE) used in spraying operations until they have left the area of application.

The authorisation bearing numbers REACH/20/18/21 to REACH/20/18/27 shall be subject to the condition that the authorisation holders and the downstream users ensure that there is no chromium (VI) above the detectable level present in articles for supply to the general public.

VOC content  
(2010/75/EU) 0,0 %

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

#### National regulations/information (Germany):

|                                      |                                                                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WGK:                                 | WGK 3: highly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )<br>Classification according to AwSV, Annex 1 (5.2) |
| Storage class according to TRGS 510: | 6.1B                                                                                                                                                                      |
| General remarks (DE):                | This product is in scope of the German regulation "ChemikalienVerbotsVerordnung"                                                                                          |

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H271 May cause fire or explosion; strong oxidizer.  
 H301 Toxic if swallowed.  
 H310 Fatal in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H340 May cause genetic defects.  
 H350 May cause cancer.  
 H361f Suspected of damaging fertility.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| ED:         | Substance identified as having endocrine disrupting properties                                                    |
| EU OEL:     | Substance with a Union workplace exposure limit                                                                   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148                                                               |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148                                                              |
| SVHC:       | Substance of very high concern (REACH Candidate List)                                                             |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria                                               |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria                                            |

### Further information:

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**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**

## Annex - Exposure Scenarios:

Exposure Scenarios for chromium trioxide can be downloaded under the following link:  
<https://mysds.henkel.com/index.html#/appSelection>