# SAFETY DATA SHEET

MATERION

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

### 1.1. Product identifier

| | |
|---|---|
| **Trade name or designation of the mixture** | CIROM IRX |
| **Synonyms** | None. |
| **Document number** | 1ZW |
| **Materion Code** | 1ZW |
| **Issue date** | 19-June-2015 |
| **Version number** | 02 |
| **Revision date** | 15-January-2018 |
| **Supersedes date** | 19-June-2015 |

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

| | |
|---|---|
| **Identified uses** | Not available. |
| **Uses advised against** | None known. |

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

**Supplier**

| | |
|---|---|
| **Company name** | Materion Advanced Chemicals Inc. |
| **Address** | 407 N. 13th Street<br>1316 W. St. Paul Avenue<br>Milwaukee, WI 53233<br>United States |
| **Division** | Milwaukee |
| **Telephone** | 414.212.0257 |
| **e-mail** | advancedmaterials@materion.com |
| **Contact person** | Noreen Atkinson |

### 1.4. Emergency telephone number

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classificatior applies.

**Classification according to Regulation (EC) No 1272/2008 as amended**

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Health hazards**

| | | |
|---|---|---|
| Acute toxicity, oral | Category 4 | H302 - Harmful if swallowed. |
| Acute toxicity, inhalation | Category 4 | H332 - Harmful if inhaled. |

**Hazard summary** Not available.

### 2.2. Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended**

| | |
|---|---|
| **Contains:** | TRADE SECRET |
| **Hazard pictograms** | None. |
| **Signal word** | Warning |
| **Hazard statements** | |
| | The mixture does not meet the criteria for classification. |
| H302 | Harmful if swallowed. |
| H332 | Harmful if inhaled. |

**Precautionary statements**

**Prevention**

| | |
|---|---|
| | Observe good industrial hygiene practices. |
| P261 | Avoid breathing dust. |
| P264 | Wash thoroughly after handling. |

| | |
|---|---|
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |

**Response**

| | |
|---|---|
| | Wash hands after handling. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTRE/doctor if you feel unwell. |
| P330 | Rinse mouth. |

**Storage** Store away from incompatible materials.

**Disposal**

| | |
|---|---|
| | Dispose of waste and residues in accordance with local authority requirements. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

**Supplemental label information** 90 % of the mixture consists of component(s) of unknown acute oral toxicity.

**2.3. Other hazards** None known.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General information**

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|---|---|---|---|---|---|
| TRADE SECRET | 80 - 90 | Proprietary<br>- | - | - | # |
| **Classification:** | Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335, Repr. 2;H361, Lact.;H362, STOT RE 2;H373 | | | | |
| TRADE SECRET | 2 - 10 | Proprietary<br>- | - | - | |
| **Classification:** | Acute Tox. 3;H301, Acute Tox. 4;H302, Eye Irrit. 2;H319, Acute Tox. 4;H332, STOT SE 3;H335, Repr. 2;H361, STOT RE 1;H372 | | | | 1,A |

**List of abbreviations and symbols that may be used above**

CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.
M: M-factor
vPvB: very persistent and very bioaccumulative substance.
PBT: persistent, bioaccumulative and toxic substance.
#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**4.1. Description of first aid measures**

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed** Direct contact with eyes may cause temporary irritation.

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

## SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

**5.1. Extinguishing media**

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

| | |
|---|---|
| **Unsuitable extinguishing media** | Do not use water jet as an extinguisher, as this will spread the fire. |
| **5.2. Special hazards arising from the substance or mixture** | During fire, gases hazardous to health may be formed. |

**5.3. Advice for firefighters**

| | |
|---|---|
| **Special protective equipment for firefighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| **Special firefighting procedures** | Use water spray to cool unopened containers. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

| | |
|---|---|
| **For non-emergency personnel** | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. |
| **For emergency responders** | Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS. |
| **6.2. Environmental precautions** | Avoid discharge into drains, water courses or onto the ground. |
| **6.3. Methods and material for containment and cleaning up** | Stop the flow of material, if this is without risk. Following product recovery, flush area with water. |
| **6.4. Reference to other sections** | For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS. |

## SECTION 7: Handling and storage

| | |
|---|---|
| **7.1. Precautions for safe handling** | Avoid prolonged exposure. Observe good industrial hygiene practices. |
| **7.2. Conditions for safe storage, including any incompatibilities** | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |
| **7.3. Specific end use(s)** | Not available. |

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

| Components | Type | Value | Form |
|---|---|---|---|
| TRADE SECRET | MAK | 2,5 mg/m3 | Inhalable fraction. |
| | STEL | 12,5 mg/m3 | Inhalable fraction. |

**Belgium. Exposure Limit Values.**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | MAC | 2,5 mg/m3 |

**Czech Republic. OELs. Government Decree 361**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | Ceiling | 5 mg/m3 |
| | TWA | 2,5 mg/m3 |

**Denmark. Exposure Limit Values**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TLV | 2,5 mg/m3 |

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Finland. Workplace Exposure Limits**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | VME | 2,5 mg/m3 |

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | STEL | 10 mg/m3<br>10 mg/m3 |
| | TWA | 2,5 mg/m3 |

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 0,6 mg/m3 |

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | STEL | 2,5 mg/m3<br>1 mg/m3 |
| | TWA | 0,5 mg/m3<br>0,1 mg/m3 |

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | STEL | 2,5 mg/m3 |
| | TWA | 0,5 mg/m3 |

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Netherlands. OELs (binding)**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | STEL | 2 mg/m3<br>2 mg/m3 |
| | TWA | 0,5 mg/m3 |

**Norway. Administrative Norms for Contaminants in the Workplace**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TLV | 0,5 mg/m3 |

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Spain. Occupational Exposure Limits**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2 mg/m3 |

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

| Components | Type | Value | Form |
|---|---|---|---|
| TRADE SECRET | STEL | 4 mg/m3 | Inhalable dust. |
| | TWA | 1 mg/m3 | Inhalable dust. |

**UK. EH40 Workplace Exposure Limits (WELs)**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

| Components | Type | Value |
|---|---|---|
| TRADE SECRET | TWA | 2,5 mg/m3 |

**Biological limit values**

**Czech Republic. Limit Values for Indictators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.**

| Components | Value | Determinant | Specimen | Sampling time |
|---|---|---|---|---|
| TRADE SECRET | 60 µmol/mmol | Fluoride | Creatinine in urine | * |
| | 60 µmol/mmol | Fluoride | Creatinine in urine | * |
| | 10 mg/g | Fluoride | Creatinine in urine | * |
| | 10 mg/g | Fluoride | Creatinine in urine | * |

* - For sampling details, please see the source document.

**France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)**

| Components | Value | Determinant | Specimen | Sampling time |
|---|---|---|---|---|
| TRADE SECRET | 3 mg/g | Fluorures | Creatinine in urine | * |
| | 3 mg/g | Fluorures | Creatinine in urine | * |
| | 10 mg/g | Fluorures | Creatinine in urine | * |
| | 10 mg/g | Fluorures | Creatinine in urine | * |

* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

| Components | Value | Determinant | Specimen | Sampling time |
|---|---|---|---|---|
| TRADE SECRET | 7 mg/g | Fluorid | Creatinine in urine | * |
| | 7 mg/g | Fluorid | Creatinine in urine | * |
| | 4 mg/g | Fluorid | Creatinine in urine | * |
| | 4 mg/g | Fluorid | Creatinine in urine | * |

* - For sampling details, please see the source document.

**Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices**

| Components | Value | Determinant | Specimen | Sampling time |
|---|---|---|---|---|
| TRADE SECRET | 7 mg/g | fluoride | Creatinine in urine | * |
| | 7 mg/g | fluoride | Creatinine in urine | * |
| | 4 mg/g | fluoride | Creatinine in urine | * |
| | 4 mg/g | fluoride | Creatinine in urine | * |
| | 42 µmol/mmol | fluoride | Creatinine in urine | * |
| | 42 µmol/mmol | fluoride | Creatinine in urine | * |
| | 24 µmol/mmol | fluoride | Creatinine in urine | * |
| | 24 µmol/mmol | fluoride | Creatinine in urine | * |

* - For sampling details, please see the source document.

**Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2**

| Components | Value | Determinant | Specimen | Sampling time |
|---|---|---|---|---|
| TRADE SECRET | 7 mg/g | Fluorides | Creatinine in urine | * |
| | 7 mg/g | Fluorides | Creatinine in urine | * |
| | 4 mg/g | Fluorides | Creatinine in urine | * |
| | 4 mg/g | Fluorides | Creatinine in urine | * |

* - For sampling details, please see the source document.

**Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4**

| Components | Value | Determinant | Specimen | Sampling time |
|---|---|---|---|---|
| TRADE SECRET | 8 mg/l | Fluoruros | Urine | * |
| | 8 mg/l | Fluoruros | Urine | * |

* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**- Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

| | |
|---|---|
| **Hygiene measures** | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |
| **Environmental exposure controls** | Environmental manager must be informed of all major releases. |

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Solid. |
| **Form** | Solid. |
| **Colour** | Not available. |
| **Odour** | Not available. |
| **Odour threshold** | Not available. |
| **pH** | Not available. |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | Not available. |
| **Flash point** | Not available. |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | Not available. |
| **Flammability limit - upper (%)** | Not available. |
| **Vapour pressure** | 0,00001 hPa estimated |
| **Vapour density** | Not available. |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Explosive properties** | Not explosive. |
| **Oxidising properties** | Not oxidising. |
| **9.2. Other information** | No relevant additional information available. |

## SECTION 10: Stability and reactivity

| | |
|---|---|
| **10.1. Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **10.2. Chemical stability** | Material is stable under normal conditions. |
| **10.3. Possibility of hazardous reactions** | No dangerous reaction known under conditions of normal use. |
| **10.4. Conditions to avoid** | Contact with incompatible materials. |
| **10.5. Incompatible materials** | Strong oxidising agents. |
| **10.6. Hazardous decomposition products** | No hazardous decomposition products are known. |

## SECTION 11: Toxicological information

| | |
|---|---|
| **General information** | Occupational exposure to the substance or mixture may cause adverse effects. |
| **Information on likely routes of exposure** | |
| **Inhalation** | Prolonged inhalation may be harmful. |
| **Skin contact** | No adverse effects due to skin contact are expected. |
| **Eye contact** | Direct contact with eyes may cause temporary irritation. |
| **Ingestion** | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. |

**Symptoms** Exposure may cause temporary irritation, redness, or discomfort.

**11.1. Information on toxicological effects**

**Acute toxicity** No data available.

**Skin corrosion/irritation** Due to partial or complete lack of data the classification is not possible.

**Serious eye damage/eye irritation** Due to partial or complete lack of data the classification is not possible.

**Respiratory sensitisation** Due to partial or complete lack of data the classification is not possible.

**Skin sensitisation** Due to partial or complete lack of data the classification is not possible.

**Germ cell mutagenicity** Due to partial or complete lack of data the classification is not possible.

**Carcinogenicity** Due to partial or complete lack of data the classification is not possible.

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| | |
|---|---|
| TRADE SECRET (CAS Proprietary) | 3 Not classifiable as to carcinogenicity to humans.<br>3 Not classifiable as to carcinogenicity to humans. |

**Reproductive toxicity** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - single exposure** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure** Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Mixture versus substance information** No information available.

**Other information** Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**12.2. Persistence and degradability** No data is available on the degradability of this product.

**12.3. Bioaccumulative potential** No data available.

**Partition coefficient n-octanol/water (log Kow)** Not available.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not available.

**12.6. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**12.7. Additional information**

**Estonia Dangerous substances in groundwater Data**

| | |
|---|---|
| TRADE SECRET (CAS Proprietary) | Fluoride (as F-ion, total) 1500 UG/L<br>Fluoride (as F-ion, total) 4000 UG/L |

**Estonia Dangerous substances in soil Data**

| | |
|---|---|
| TRADE SECRET (CAS Proprietary) | Fluoride (as F-ion) 1200 mg/kg<br>Fluoride (as F-ion) 2000 mg/kg<br>Fluoride (as F-ion) 450 mg/kg |

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

| | |
|---|---|
| **EU waste code** | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| **Disposal methods/information** | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. |
| **Special precautions** | Dispose in accordance with all applicable regulations. |

## SECTION 14: Transport information

**ADR**

14.1. - 14.6.: Not regulated as dangerous goods.

**RID**

14.1. - 14.6.: Not regulated as dangerous goods.

**ADN**

14.1. - 14.6.: Not regulated as dangerous goods.

**IATA**

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG**

14.1. - 14.6.: Not regulated as dangerous goods.

## SECTION 15: Regulatory information

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

**EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

**Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

| | |
|---|---|
| **Other regulations** | The product is classified and labelled in accordance with EC directives or respective national laws This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. |
| **National regulations** | Follow national regulation for work with chemical agents. |
| **15.2. Chemical safety assessment** | No Chemical Safety Assessment has been carried out. |

## SECTION 16: Other information

**List of abbreviations**

Not available.

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculatior methods and test data, if available.

**Disclaimer**

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