

**SAFETY DATA SHEET**

It complies with the KKDIK (REGULATION ON REGISTRATION,EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS), Annex II Regulation on Requirements for the Preparation of Safety Data Sheets published in the Official Gazette No. 30105 dated 23.06.2017

**SECTION 1: Identification of the substance/mixture and of the company/ distributor**

**1.1 Substance/mixture identity**

Product code : K116005  
 Product name : Nickel II nitrate  
 KKDIK reg. no :  
 KKDIK reg. name :  
 Date of issue / date of Revision : 13-04-2025  
 Version : 1.0

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

**Relevant identified uses**

Laboratory chemical

| Uses advised against | Reason            |
|----------------------|-------------------|
| No data available    | No data available |

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

Manufacturer/ distributor : Yenilab Laboratuvar ve Egitim Gereçleri Kimya San. Tic. Ltd. Sti.  
 Çelebiler Mh. Çelebiler Cd. No: 28/2 Adapazari / Sakarya

e-mail address of person responsible for this SDS : [info@guvenlikbilgiformu.net](mailto:info@guvenlikbilgiformu.net)

**1.4 Emergency telephone number**

**National advisory body/poison center**

Telephone number : T. C. Ministry of Health National Poison Information Center phone number: 114

**Supplier**

Telephone number : 8503029450 (9:00 AM - 5:00 PM)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**




Product definition : Substance  
**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**  
**Oxidizing solids 2, H272 May intensify fire; oxidiser.**  
**Acute toxicity 4, H302 Harmful if swallowed. , Oral.**  
**Skin irritation 2, H315 Causes skin irritation.**  
**Skin sensitization 1, H317 May cause an allergic skin reaction.**  
**Serious eye damage 1, H318 Causes serious eye damage.**  
**Acute toxicity 4, H332 Harmful if inhaled. , Inhalation.**

**Respiratory sensitization 1, H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.**  
**Germ cell mutagenicity 2, H341 Suspected of causing genetic defects .**  
**Carcinogenicity 1A, H350i May cause cancer by inhalation. , Inhalation.**  
**Reproductive toxicity 1B, H360D May damage the unborn child. , Perinatal mortality.**  
**Specific target organ toxicity - repeated exposure 1, H372 Causes damage to organs through prolonged or repeated exposure . , Lungs, inhalation.**  
**Hazardous to the aquatic environment, aquatic acute 1, H400 Very toxic to aquatic life.**  
**Hazardous to the aquatic environment aquatic chronic 1, H410 Very toxic to aquatic life with long lasting effects.**

See Section 16 for the full text of the H statements declared above.  
 See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements**

**Hazard pictograms :**

|       |   |
|-------|---|
| GHS03 |    |
| GHS05 |    |
| GHS07 |    |
| GHS08 |   |
| GHS09 |  |

**Signal word :** Danger

**Hazard statements :**

|   |             |  |
|---|-------------|--|
| H272 May intensify fire; oxidiser.  |             |  |
| H302 Harmful if swallowed.  | Oral.       |  |
| H315 Causes skin irritation.  |             |  |
| H317 May cause an allergic skin reaction.                                       |             |  |
| H318 Causes serious eye damage.   |             |  |
| H332 Harmful if inhaled.  | Inhalation. |  |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |             |  |
| H341 Suspected of causing genetic defects .                                     |             |  |
| H350i May cause cancer by inhalation.   | Inhalation. |  |

|   |                      |  |
|---|----------------------|--|
| H360D May damage the unborn child.                                    | Perinatal mortality. |  |
| H372 Causes damage to organs through prolonged or repeated exposure . | Lungs, inhalation.   |  |
| H400 Very toxic to aquatic life.                                      |                      |  |
| H410 Very toxic to aquatic life with long lasting effects.            |                      |  |

**Precautionary statements**

**Prevention :**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 Keep/Store away from clothing/.../combustible materials.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash skin thoroughly after handling.
- P270 Do no eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 In case of inadequate ventilation wear respiratory protection.

**Response :**

- P310 Immediately call a POISON CENTER/doctor/...
- P312 Call a POISON CENTER/doctor/.../if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see ... on this label).
- P330 Rinse mouth.
- P391 Collect spillage.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of water/....
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/....
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use ... to extinguish.(CHECK RELEVANT SDS SECTION)

**Storage :**

P405 Store locked up.

**Disposal :**

P501 Dispose of contents/container according to national regulations

**Hazardous ingredients :**

Nickel dinitrate

**Supplemental label elements :**

No data available

**Annex XVII Restrictions on the manufacture, placing on the market and use of hazardous substances, mixtures and articles :**

No data available

Annex XVII- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

2.3 Other hazards

Other hazards which do not result in classification : No data available

SECTION 3: Composition/information on ingredients

Substance/mixture : Substance

| PRODUCT/INGREDIENT<br>SUBSTANCE NAME | IDENTIFIER<br>NAME            | INDETIFIER<br>NUMBER | %   | CLASSIFICATION<br>REGULATION<br>(EC) NO.<br>1272/2008<br>[CLP(SEA)] | H PHRASES   | TYPE/NOTE/M<br>FACTORS,<br>SCL   |
|--------------------------------------|-------------------------------|----------------------|-----|---|---|--|
| Nickel dinitrate                     | CAS NO                        | 13138-45-9           | 100 | Ox. Sol. 2  | H272 May intensify fire; oxidiser.  | [1] Substance classified with a health or environmental hazard.<br>Not =<br>M (Acute) = 1<br>M (Chronic) = 1<br>OkSD = |
|                                      | EC NO                         | 236-068-5            |     | Acute Tox. 4  | H302 Harmful if swallowed.  |  |
|                                      | INDEX NO                      |                      |     | Skin Irrit. 2   | H315 Causes skin irritation.  |  |
|                                      | REACH NO                      |                      |     | Akut Tok. 1Skin Sens. 1   | H317 May cause an allergic skin reaction.                                       |  |
|                                      | KKDIK NO                      |                      |     | Eye Dam. 1  | H318 Causes serious eye damage.   |  |
|                                      | UN NO                         | 2725                 |     | Acute Tox. 4  | H332 Harmful if inhaled.  |  |
|                                      | CLASS AND CLASSIFICATION CODE | 5.1 ( O2 )           |     | Resp. Sens. 1   | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |  |
|                                      | P.G.                          | III                  |     | Muta. 2   | H341 Suspected of causing genetic defects .                                     |  |
|                                      |                               |                      |     | Carc. 1A  | H350i May cause cancer by inhalation.   |  |
|                                      |                               |                      |     | Repr. 1B  | H360D May damage the unborn child.  |  |
|                                      |                               |                      |     | STOT RE 1   | H372 Causes damage to organs through prolonged or repeated exposure .           |  |
|                                      |                               |                      |     | Aquatic Acute 1   | H400 Very toxic to aquatic life.  |  |
|                                      |                               |                      |     | Aquatic Chronic 1   | H410 Very toxic to aquatic life with long lasting effects.                      |  |

Datas have taken from ECHA - Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation) & REACH Registration Joint Submission and if exist from supplier raw material SDS.  
Check Section 16 for full explanations for H Expressions written above

within the supplier's current knowledge and in applicable concentrations.

**Type**

- [1] Substance classified with a health or environmental hazard
  - [2] Substance with a workplace exposure limit [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
  - [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
  - [5] Substance of equivalent concern
  - [6] Additional disclosure due to company policy
- Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General :** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Inhalation :** Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel and seek medical help .
- Skin contact :** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Eye contact :** Check for and remove any contact lenses. Immediately flush eyes with room temperature water for at least 15 minutes, keeping eyelids open. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.
- Swallowing :** If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders :** No action shall be taken involving any personal risk or without suitable training. In situations where you suspect smoke is present, the rescuer must use a suitable mask or complete breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

There are not available on the mixture/substance itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details. Exposure to component vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and, in extreme cases, loss of consciousness. May cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, may cause irritation and damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. May produce allergic reactions.

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

- Notes to medical doctor :** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments :** No data available. See toxicology information (Section 11).

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

if available, relevant information was taken from raw material safety data sheets, if not, from the ICSC database on the ILO-International Labor Organization website.

**Suitable extinguishing media :** No data available.  
**Unsuitable extinguishing media :** Do not use pressurized water.

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

**Hazards arising from the substance or mixture :** No data available.  
**Hazardous combustion products :** No data available.

**5.3 Advice for firefighters**

**Protective measures to be taken during fire extinguishing :** No data available.  
**Special protective equipment for fire fighters :** A suitable respiratory apparatus may be required.

**SECTION 6: Accidental release measures**

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

**For non-emergency personnel :** Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.  
**For emergency responders :** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in For non-emergency personnel.

**6.2 Environmental precautions :** Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations

**6.3 Methods and materials for containment and cleaning up :** Contain and collect the spilled material with non-combustible absorbent material such as sand, earth, vermiculite or diatomaceous earth and place in a container for disposal in accordance with local regulations (see section 13). Use detergents preferably for cleaning up, avoid solvents.

**6.4 Reference to other sections :** See Section 1 for emergency contact information.  
 See Section 8 for information on appropriate personal protective equipment.  
 See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling :** The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal

protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

**Advice on general occupational hygiene :** Eating, drinking and smoking should be prohibited in areas where materials are transported, stored and processed. Workers should wash their hands before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering areas where food is consumed. Also see Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities- :**

No data available.

**Notes on shared storage :**

Store in accordance with local regulations. Keep away from: Metal, powder, organic substances, oxidizing agents, strong alkalis, strong acids.. Additional information on storage conditions observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use suitable container to avoid environmental contamination. Do not reuse container. See Section 10 before handling or using incompatible materials.

**Seveso Directive - Notification of Thresholds**

**Hazard Criteria**

| Category          | Information and BEKP Threshold | Security Report Threshold |
|-------------------|--------------------------------|---------------------------|
| No data available | No data available              | No data available         |

**7.3 Specific end use(s)**

**Recommendations :**

The recommendations for the listed user(s) mentioned in Section 1 can be found in Section 7.

**Industrial sector specific solutions :**

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limits**

Nickel dinitrate

| Product/ingredient name | Exposure limit values |
|-------------------------|-----------------------|
| No data available       | No data available     |

**Biological exposure indices**

No data available

**Recommended monitoring**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other

**procedures :** control measures and/or necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNEL s/DMEL s**

Nickel dinitrate

No data available

**PNEC s**

Nickel dinitrate

No data available

**8.2 Exposure controls**

**Appropriate engineering controls :** Provide adequate ventilation. Avoid inhaling. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

**Individual protection measures :**

**Hygiene measures :** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection :** Use safety eyewear designed to protect against splash of liquids according to EN166.

**Skin protection :**

**Hand protection :**

**Gloves :** Wear suitable gloves tested to EN374. There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Chemical-resistant, water or air proof gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Check that the gloves maintain their protective properties during use, taking into account the parameters defined by the glove manufacturer. It should be noted that the time of breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the type of glove they have chosen is the most suitable type for working with this product and ensure that the specific conditions for this product, as defined in the user s risk assessment document, are met.

**Body protection :** Personnel should wear antistatic clothing made of natural fibers or of hightemperature-resistant synthetic fibers.

|  |  |
|--|--|
| <b>Other skin protectors</b>             | No data available  |
| <b>Respiratory protection :</b>          | If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. |
| <b>Environmental exposure controls :</b> | Do not allow to enter drains or watercourses.  |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                   |
|---|-------------------|
| Physical state, appearance :              | Solid             |
| Colour :                                  | No data available |
| Odour :                                   | No data available |
| Odour threshold :                         | No data available |
| Melting point/freezing point :            | No data available |
| Flash point :                             | No data available |
| Flammability :                            | No data available |
| pH :                                      | No data available |
| Up and down flame. or explosion limits :  | No data available |
| Density :                                 | No data available |
| First boiling point and range :           | No data available |
| Evaporation rate :                        | No data available |
| Vapour pressure :                         | No data available |
| Vapor density :                           | No data available |
| Relative density :                        | No data available |
| Solubility(ies) :                         | No data available |
| Partition coefficient: n-octanol/ water : | No data available |
| Auto-ignition temperature :               | No data available |
| Decomposition temperature :               | No data available |
| Viscosity :                               | No data available |
| Explosive properties :                    | No data available |
| Oxidizing properties :                    | No data available |
| Critical Temperature :                    | No data available |
| Note :                                    | No data available |

### 9.2 Other information

VOC % : No data available

## SECTION 10: Stability and reactivity

|  |  |
|--|--|
| <b>10.1 Reactivity :</b>                         | No specific test data related to reactivity available for this product or its ingredients. |
| <b>10.2 Chemical stability :</b>                 | Stable under recommended storage and handling conditions (see Section 7).                  |
| <b>10.3 Possibility of hazardous reactions :</b> | Under normal conditions of storage and use, hazardous reactions will not occur.            |
| <b>10.4 Conditions to avoid :</b>                | When exposed to high temperatures may produce hazardous decomposition products.            |
| <b>10.5 Incompatible</b>                         | Keep away from the following materials to prevent strong exothermic reactions: Metal,      |

**materials :** powder, organic substances, oxidizing agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products :** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

There are not available on the mixture/substance itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details. Exposure to component vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. May cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. May produce an allergic reactions.

**Acute toxicity**

No data available

**Irritation/Corrosion**

No data available

**Sensitization**

No data available

**Mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity (single exposure)**

No data available

**Specific target organ toxicity (repeated exposure)**

No data available

**Aspiration hazard**

No data available

**11.2 Information regarding other hazards**

**11.2.1 Endocrine disrupting properties**

No data available

**11.2.2 Other information**

No data available

**SECTION 12: Ecological information**

There are not available on the mixture /substance itself.  
Do not allow to enter drains or watercourses.

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Chapters 2 and 3 for details.**

**12.1 Ecological Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

| Product/ingredient name | LogPow            | BCF               | Potential         |
|-------------------------|-------------------|-------------------|-------------------|
| No data available       | No data available | No data available | No data available |

**12.4 Mobility in soil**

**Soil/water partition coefficient (KOC): :** No data available

**Mobility :** No data available

**12.5 Results of PBT and vPvB assessment**

**PBT :** No data available

**vPvB :** No data available

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**13.1 Waste treatment methods**

**Product**

**Disposal Methods** No data available

**Disposal Information** No data available

**European Waste Catalogue (EWC) Special precautions**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied





containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Packaging**

**Disposal Methods** No data available

**Disposal Information** No data available

**SECTION 14: Transport information**

|  | ADR/RID   | ADN   | IMDG  | IATA  |
|--|---|---|---|---|
| <b>14.1 UN number</b>                                    | UN2725  | UN2725  | UN2725  | UN2725  |
| <b>14.2 UN proper shipping name</b>                      | NICKEL NITRATE  | NICKEL NITRATE  | NICKEL NITRATE  | NICKEL NITRATE  |
| <b>14.3 Transport hazard class(es) &amp; class. Code</b> | 5.1 ( O2 )  | 5.1 ( O2 )  | 5.1 ( O2 )  | 5.1 ( O2 )  |
| <b>Label Info</b>  |   |   |   |   |
| <b>5.1</b>   |  |  |  |  |
| <b>14.4 Packing group</b>                                | III   | III   | III   | III   |
| <b>14.5 Environmental hazards</b>                        | yes   | yes   | yes   | yes   |
| <b>Additional information (Tunnel restriction code)</b>  | 3(E)  | 3(E)  | 3(E)  | 3(E)  |

**14.6 Special Precautions for user :** Transport within user’s premises: always transport in closed containers that are upright and secure.  
Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Bulk maritime transport according to IMO instruments.** No data available.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization Annex XIV None of the components are listed.

Substances of very high concern None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :** No data available

**Other EU regulations**

No data available

**Substances that deplete the ozone layer (2024/590/EU)**

No data available

**Prior Informed Consent (PIC) (649/2012/EU)**

No data available

**Persistent organic pollutants**

No data available

**Seveso Directive**

No data available

**National Legislation**

**Industrial use :**

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations have to be apply to the use of this product at work.

**15.2 Chemical Safety Assessment :**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**Abbreviations and acronyms :**

- ATE = Predicted acute toxicity
- CLP = Classification, Labelling and Packaging Regulation (Regulation (EC) No.1272/2008)
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

| <b>Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</b> |                      |
|---|----------------------|
| <b>Classification</b>   | <b>Justification</b> |
| Oxidizing solids 2  | Calculation method   |
| Acute toxicity 4  |                      |
| Skin irritation 2   |                      |
| Skin sensitization 1  |                      |
| Serious eye damage 1  |                      |
| Acute toxicity 4  |                      |
| Respiratory sensitization 1   |                      |
| Germ cell mutagenicity 2  |                      |
| Carcinogenicity 1A  |                      |
| Reproductive toxicity 1B  |                      |
| Specific target organ toxicity - repeated exposure 1  |                      |
| Hazardous to the aquatic environment, aquatic acute 1   |                      |
| Hazardous to the aquatic environment aquatic chronic 1  |                      |

| <b>Full text of abbreviated H statements</b>                                    | <b>Exposure way</b> |  |
|---|---------------------|--|
| H272 May intensify fire; oxidiser.  |                     |  |
| H302 Harmful if swallowed.  | Oral.               |  |
| H315 Causes skin irritation.  |                     |  |
| H317 May cause an allergic skin reaction.                                       |                     |  |
| H318 Causes serious eye damage.   |                     |  |
| H332 Harmful if inhaled.  | Inhalation.         |  |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |                     |  |
| H341 Suspected of causing genetic defects .                                     |                     |  |

|   |                      |  |
|---|----------------------|--|
| H350i May cause cancer by inhalation.                                 | Inhalation.          |  |
| H360D May damage the unborn child.                                    | Perinatal mortality. |  |
| H372 Causes damage to organs through prolonged or repeated exposure . | Lungs, inhalation.   |  |
| H400 Very toxic to aquatic life.                                      |                      |  |
| H410 Very toxic to aquatic life with long lasting effects.            |                      |  |

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| <b>Full text of classifications [CLP/GHS] :</b>        |
| Oxidizing solids 2                                     |
| Acute toxicity 4                                       |
| Skin irritation 2                                      |
| Skin sensitization 1                                   |
| Serious eye damage 1                                   |
| Acute toxicity 4                                       |
| Respiratory sensitization 1                            |
| Germ cell mutagenicity 2                               |
| Carcinogenicity 1A                                     |
| Reproductive toxicity 1B                               |
| Specific target organ toxicity - repeated exposure 1   |
| Hazardous to the aquatic environment, aquatic acute 1  |
| Hazardous to the aquatic environment aquatic chronic 1 |

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**Notice to reader**

The information in this SDS is based on the present state of our knowledge and on current laws.  
The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions.  
It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation.  
The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product s properties.