

Safety Data Sheet

According to "BY-LAW ON REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS (Official Gazette No: 23.06.2017- 30105)"



OXİNAX Activ

Preparation Date: 20.05.2022
Revision Number: -
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Revision date:-
SDS Number: ZD.SDS:1129

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Use of the substance/mixture: Biocidal product

1.2 Product Name: OXİNAX Activ

1.3 Name and Address of Company and Manufacturer Company;

Company Name: NANOX KİMYASAL ÜRÜNLER SAN. VE TİC. A.Ş.

Address: Bahçekapı Mah. Fen işleri Cad. No:4/B Etimesgut/ANKARA

E-mail: info@nanoxkimya.com

Phone: 0312 397 58 50– 0312 397 58 51

1.4 Information on security: Hasan Emre SAYGIN (Hasan.saygin@nanoxkimya.com)

1.5 Emergency telephone number:

EMERGENCY TELEPHONE: In case of poisoning, call the national poison center (UZEM) 114 if necessary.

Emergency response center: 112

Fire department: 110

2. HAZARDS IDENTIFICATION

2.1 Physical Effect: No physical effect available.

Potential Acute Effect on Health: No health effect.

Effects on environment: No environment effect.

2.2 Classification of the substance or mixture

According to CLP;

Signal pictograms: Not classified.

Signal word: Not classified.

Hazard statements: Not classified.

Precautionary statements:

P501 Dispose of contents/container in accordance with Waste Management Regulation

2.3. Additional information

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The relevant risk safety statements and hazard and precautionary statements are given in Chapter 16.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Identification: Mixture

- Dangerous substances it contains:

| Chemical Name | EC No | CAS No | Content % (w/w) | Classification (CLP) |
|--|-----------|------------|--------------------|---|
| Chlorine dioxide generated from sodium chlorite by acidification | 233-162-8 | 10049-04-4 | 0,3 | Press.Gas (*)H270 Oxid.Gas 1 H280 Acute Tox. 2 * H330 Skin Corr. 1B H314 Aquatic Acute 1 H400 |

The full text of the hazard statements is given in Chapter 16.

About Composition

The data are given in accordance with the latest T.C and EU regulations.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General information: Immediately remove contaminated clothing. Avoid contact with skin, eyes and clothing.

Inhalation: Move the person who has inhaled the product for a long time to fresh air and seek medical advice.

Skin: Immediately remove all contaminated clothing. Wash skin immediately with water, then follow with soap and water. Contaminated clothing should be washed before reuse. If symptoms persist or in all doubtful cases seek medical attention.

Eye: Flush eyes with plenty of water for at least 15/20 minutes while lifting eyelids. Contact your eye doctor.

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Ingestion: DO NOT induce vomiting. Immediately rinse mouth with water and drink plenty of water, consult a doctor.

4.2 Major Symptoms and Effects, both acute and delayed

Inhalation: No known significant effects or critical hazards.

Skin: Causes severe skin burns and eye damage.

Eye: No known significant effects or critical hazards.

Ingestion: Toxic if swallowed.

4.3 Early Signs of Need for Medical Intervention and Special Treatment

Treat according to symptoms.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

To be used for firefighting: Water, water mist in accordance with the surrounding material

Unsuitable extinguishers: In case of aerosol can puncture during a fire, it will increase the flame.

5.2. Special hazards arising from the substance or mixture:

In the event of a fire, hydrogen peroxide can produce oxygen, which can add to the severity of the fire. The product does not burn by itself, but can support the combustion of combustible material. There is a risk of explosion if mixed with combustible material. Pressure increases in the enclosed space (risk of decomposition).

Unusual fire and explosion hazards

No available information.

Harmful combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

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5.3. Special protective equipment

Special fire fighting methods

In case of fire, evacuate the area immediately by removing everyone from the scene.

Officials who do not receive the necessary training should not take any action that may cause personal risk.

Protective Equipment

Wear full protective clothing.

Self-contained breathing apparatus (EN 133).

Cool endangered containers with water.

Other information: Collect contaminated fire extinguishing water separately. Prevent it from entering sewers or other water systems

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Protective Precautions/ Personal Protection

Do not breathe the vapor for a long time and intensely. Avoid contact with ignition sources. Protective equipment should be used. Adequate ventilation should be provided or a scuba respirator should be used. Avoid contact with eyes, skin and clothing. Wash your clothes after use.

6.2 Environmental Precautions

Keep away from flammable materials. Do not discharge into channels. Collect and dispose of contaminated water. Prevent from entering sewers/surface or groundwater.

6.3 Methods and material for containment and cleaning up

Cover the spilled area with moist sand or soil. Set up a container for waste. Wash the spilled area with water. Prevent water from entering the sewer system. In cases of uncontrolled discharge and spillage into water basins, the relevant unit should be immediately informed of the situation and measures should be taken.

6.4 Reference to other sections

See Section 8 for personal protection.

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See section 11 for additional information on health hazards

See Chapter 13 for waste disposal

7. HANDLING AND STORAGE

7.1 Usage/ Handling

Read the label before use. Follow the hygiene and safety rules. Keep the product closed in its original packaging.

7.2 Conditions for Safe Storage, including any Incompatibilities:

Store at 25°C \pm 2 in a well-ventilated area. Keep container tightly closed. Keep away from food, drink and animal feed. The warehouse should be cleaned regularly, ventilation equipment, temperature and humidity controls should be made regularly. All items should be kept closed in their original packaging when not in use.

7.3 Specific End Uses

The identified uses of this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Occupational exposure limits

Chlorine dioxide generated from sodium chlorite by acidification Cas No: 10049-04-4

0.28 mg/m³ TLV:0.1 ppm (TVA), (ACGIH 2004)

MAX: 0.1 ppm, MAX: 0.28 mg/m³ Limit value

8.2. Exposure controls:

Provide adequate ventilation in work areas. Avoid exposure to the product. Do not get into eyes and skin. Do not breathe. Do not swallow. Eating and drinking should be prohibited in the working area and warehouse.

Respiratory protection: Use appropriate NIOSH approved respirator.

Hand protection: Hydrocarbon-proof gloves such as PVA, nitrile.

Eye protection: Use safety glasses.

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Skin protection: Use suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: clear liquid

Odor : Chlorine-like odor

Color : dark yellow

9.2. Other informations

Density : 1,00 – 1,10 gr/cm³

Flash point : No data available

Boiling point : No data available

Explosive properties : No data available

Viscosity :No data available

Solubility (In water/alcohol/oil) : soluble.

Vapor pressure : No data available

Distribution factor (n-octanol/water): No data available

pH: 1,75 – 2,75

Melting point :No data available

Flammable properties : No data available.

9.2 Other Information

Information is not required.

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not known

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10.2 Chemical Stability: The product is stable under normal ambient conditions and anticipated storage and handling conditions.

10.3 Possibility of Hazardous Reactions: Keep the product away from flames, sparks and sources of ignition.

10.4 Conditions to avoid: High temperatures. UV light. Protect from contamination. Thermal decomposition > 114 °C.

10.5 Substances to avoid: Combustible material, Reducing agents, Organic materials, Bases, metal oxides, metal ions (eg Mn, Fe, Cu, Ni, Cr, Zn), metal salts, rust, dirt.

10.6 Hazardous Decomposition Products: Oxygen, water vapour

11.TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| Substance or component | LD50 Oral values | LD50 dermal | LC 50 inhalation |
|--|------------------|-------------|------------------|
| Chlorine dioxide generated from sodium chlorite by acidification | 93.86 mg/kg | - | 0.048 mg/L |

Skin Corrosion/Irritation: No effect

Serious eye damage/ Irritation: No effect

Skin or Respiratory sensitization: No effect

Germ Cell Mutogenicity (in vitro – in vivo): Not classified

Carcinogenicity: Not classified

Reproductive toxicity : Not classified

Specific Target Organ Toxicity - Single Exposure: Not Classified

Specific Target Organ Toxicity - Repeated Exposure: Not Classified

Inhalation: Not classified

Ingestion: Toxic if swallowed.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

EC50 for freshwater algae: 1.096 mg/L

EC10 or NOEC for freshwater algae: 0.02 mg/L

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12.2 Persistence and Degradability

Since hydrogen peroxide decomposes into water and oxygen, there is no permanence in the environment.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB Assessment: No data available.

12.6 Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

13.1. General Disposal Information of Product

Waste identification numbers/waste descriptions should be collected specifically for each industry class and process in accordance with local legislation, in line with the regulation on the general principles of appropriate disposal / product waste management and the regulation on control of hazardous wastes.

14. TRANSPORT INFORMATION

14.1 UN Number

UN No. (ADR/RID): Not classified as dangerous.

UN No. (IMDG) Not classified as dangerous.

UN No. (ICAO) Not classified as dangerous.

14.2 UN Proper Shipping Name

Not classified as dangerous.

Transport Hazard Class(es)

ADR/RID Class Not classified as dangerous.

ADR Label Number Not classified as dangerous.

IMDG Class Not classified as dangerous.

ICAO Class Not classified as dangerous.

14.3 Packing Group

ADR/RID Packing Group Not classified as dangerous.

IMDG Packing Group Not classified as dangerous.

ICAO Packing Group Not classified as dangerous.

14.5 Environmental Damages

Environmentally hazardous substance/ Marine pollutant

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Not classified as dangerous.

14.6 Special Precautions for User: No data

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15. REGULATORY INFORMATION

15.1 Private security, health and environmental regulations for the substance or mixture:

Related regulations;

- BY-LAW ON REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS (Official Gazette No: 23.06.2017- 30105)
- Classification of substances and mixtures, Packaging and Labelling Regulations - (11 December 2013 and 28848 Rep. No.)
- ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road (R.G.24/10/2013-28801)

15.2 . Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out by the supplier for this mixture.

16. OTHER INFORMATION

16.1. Changes: -

Revision date: -

16.2. Shortcuts

SDS: Safety Data Sheet

CAS: Service registration number of chemicals

EINECS: European Inventory of Chemical Substances

SEA: Regulation on Classification, Labeling and Packaging of Substances and Mixtures published in RG.-11/12 / 2013-28848

CLP: EU Directive 1272/2008 <Classification, Labeling and Packaging of Substances and Mixtures>

TWA: Measured or calculated time-weighted average for a specified reference time of 8 hours

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STEL: The maximum exposure value that must not be exceeded for a period of 15 minutes unless otherwise specified.

Mg / m³: at 20 ° C and 101.3 KPa. (760 mm mercury pressure) The amount of material in milligrams of 1 m³ of air at pressure

ppm: the amount of material contained in 1 m³ of air in milliliters (ml / m³)

NIOSH: The National Institute for Occupational Safety and Health CEN: Normalization at the European Commission

NTP: (National Toxicology Program) National Toxicology Program

IARC: The International Agency for Research on Cancer

OSHA: (Occupational Safety and Health Association)

EWC: (European Waste Catalog) European Union Waste Catalog

ADR: Transport of Dangerous Goods

RID: Transport of dangerous goods by rail

ADNR: Regulation on the Carriage of Dangerous Goods in Rivers

IMDG: Regulation on training and authorization within the scope of international code on dangerous cargoes transported by sea

ICAO: International Civil Aviation Organization

IATA: International Air Transport

16.3 Reference and Sources

- The key information sources used in the editing of this safety data sheet are as follows
- Data sheets for raw materials and product components
- Regulations and annexes on the preparation and distribution of safety data sheets for dangerous goods and preparations
- Regulation on Preparation of Safety Data Sheets for Hazardous Substances and Mixtures (13.12.2014- Official Gazette No. 29204) and its annexes
- UN ADR, IMDG, IATA LISTS
- ECHA and related EU directives, IUCLID (HSCB), HSDB (DANGEROUS DATA BANK)

16.4. Classification and methodology for the classification of mixtures: In accordance with the Regulation on the Classification, Labeling and Packaging of Substances and Mixtures (Official Gazette No: 11.12.2013, 28848).

Not classified.

16.5. All hazard statements in Section 2 and 3:

H400: Very toxic to aquatic life.

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H314: Causes severe skin burns and eye damage.

H270: May intensify fire; oxidizer.

H330: Fatal if inhaled.

H280: Contains compressed gas; may explode when heated.

16.6. Other informations

This document has been issued by the person (s) certified in accordance with the regulations by making use of the safety data sheets provided by the manufacturer.

Preparer

Name and Surname: Zeynep DİLEK

Contact information: zeynep-dilek@outlook.com

Certificate No: TÜV/11.14.02- Chemical Safety Expert

Certificate Validity Date: 25/04/2024

Other informations

Use and application information is given in the technical leaflets of the products. The details are based on the information we have today and do not represent any assurance on product quality, nor can any cited facts be cited. This Safety Data Sheet prepared for **OXİNAX Activ** was prepared on behalf of **NANOX KİMYASAL ÜRÜNLER SAN. VE TİC. A.Ş.**