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ΕN

## **Safety Data Sheet**

According to U.S.A. Federal Hazcom 2012 and Canadian HPR - WHMIS 2015

## 1. Identification

#### 1.1. Product identifier

MT5009-0 Code Product name Nitrogen Reagent

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

Determination of Nitrogen in Soil (Extract) Samples.

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

Milwaukee Electronics Kft. Full address Alsókikötő sor 11. **District and Country** H6726 Szeged Hungary

Tel. +36-62-428-050 Fax +36-62-428-051

e-mail address of the competent person

responsible for the Safety Data Sheet info@milwaukeeinst.com

Product distribution by: Milwaukee Instruments, Inc.- 2950 Business Park Drive - Rocky Mount - NC 27804 -

U.S.A. - Technical Service Contact Information: +1 252 443 3630, fax number

252.443.1937 - e-mail: sales@milwaukeeinstruments.com

1.4. Emergency telephone number

For urgent inquiries refer to USA Emergency Contact Information: +1-800-424-9300 - CHEMTREC 24 hours/365

## 2. Hazards identification

## 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement

Acute toxicity, category 3 Skin corrosion, category 1

Serious eye damage, category 1

Toxic if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Hazard pictograms:



Signal words: Danger

Hazard statements:

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

Prevention:

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P260 Do not breathe dust, fume, gas, mist, vapours, spray.

Response:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.

@EPY 9.11.0 - SDS 1004.13

**M** Milwaukee

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2. Hazards identification .../>>

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

Storage:

Disposal:

The mixture contains 89.23% of components of unknown acute inhalation toxicity.

2.2. Other hazards

Environmental classification as for Reg. (EU) 1272/2008 (CLP):

The product is classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

Classification and Hazard Statement

Hazardous to the aquatic environment, chronic toxicity, category 3 Harmful to aquatic life with long lasting effects.

Hazard statements:

**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

Response:

Storage:

Disposal:

Additional hazards

Corrosive to the respiratory tract.

## 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification:

CITRIC ACID MONOHYDRATE

CAS 5949-29-1  $10 \le x < 30$  Eye irritation, category 2 H319

EC 201-069-1

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POTASSIUM DISULFATE

CAS 7790-62-7 9 ≤ x < 17 Acute toxicity, category 3 H331, Skin corrosion, category 1A H314,

Serious eye damage, category 1 H318

EC 232-216-8

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ZINC POWDER STABILIZED

CAS 7440-66-6  $0.5 \le x < 1$  Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=10,

Hazardous to the aquatic environment, chronic toxicity, category 1 H410 M=1

EC 231-175-3 INDEX 030-001-01-9

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## 4. First-aid measures

## 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly

<sup>\*</sup> There is a batch to batch variation.



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### 4. First-aid measures .../>>

authorised by a doctor.INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

POTASSIUM DISULFATE

Irritation and corrosion, Cough, Shortness of breath. Risk of blindness!.

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

Information not available

## 5. Fire-fighting measures

## 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### POTASSIUM DISULFATE

Not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of: Sulphur oxides.

## 5.3. Advice for firefighters

### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## 6. Accidental release measures

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

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

## 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.



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## 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

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

Information not available

## 8. Exposure controls/personal protection

#### 8.1. Control parameters

## Regulatory References:

JSA NIOSH-REL NIOSH publication No. 2005-149, 3th printing, 2007.

USA OSHA-PEL Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.

USA CAL/OSHA-PEL California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits

(PELs).

EU OEL EU Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC;

Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2019

## **BARIUM SULFATE**

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min		
		mg/m3	ppm	mg/m3	ppm		
OEL	EU	0.5					
TLV-ACGIH	-	5					
OSHA	USA	15				INHAL	
OSHA	USA	5				RESP	
CAL/OSHA	USA	10				INHAL	
CAL/OSHA	USA	5				RESP	
NIOSH	USA	10				INHAL	
NIOSH	USA	5				RESP	

#### Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

#### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (OSHA 29 CFR 1910.138). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

### RESPIRATORY PROTECTION

Use a NIOSH certified filtering facemask (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134) or equivalent device, whose class and effective need, must be defined according to the outcome of risk assessment.

## **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure



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## 8. Exposure controls/personal protection .../>

compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## 9. Physical and chemical properties

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

**Properties** Value Appearance powder Colour white Odour odourless Odour threshold Not available 2 pH - 29 g/L Melting point / freezing point Not available Initial boiling point Not applicable Not available Boiling range Flash point Not applicable Evaporation rate Not available Flammability (solid, gas) Not available Not available Lower inflammability limit Upper inflammability limit Not available Not available Lower explosive limit Upper explosive limit Not available Vapour pressure Not available Vapour density Not available

Relative density 1.9

Solubility partially soluble in water

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Not available

9.2. Other information

Total solids (250°C / 482°F) 100,00 %

## 10. Stability and reactivity

## 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

## 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

## 10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

### 10.4. Conditions to avoid

Avoid environmental dust build-up.

POTASSIUM DISULFATE

Exposure to moisture.

## 10.5. Incompatible materials

Information not available

## 10.6. Hazardous decomposition products

Information not available

Information



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## 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

#### POTASSIUM DISULFATE

Acute inhalation toxicity, absorption, Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages, damage of respiratory tract, Lung oedema, Symptoms may be delayed - Skin irritation (in analogy to similar products), Causes severe burns. - Eye irritation (in analogy to similar products). Causes serious eye damage. Risk of blindness!

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

#### ACUTE TOXICITY

Corrosive to the respiratory tract.

POTASSIUM DISULFATE

 LD50 (Oral)
 2140 mg/kg Rat

 LC50 (Inhalation)
 0.85 mg/l/4h Rat

CITRIC ACID MONOHYDRATE

LD50 (Oral) 3000 mg/kg Rat LD50 (Dermal) > 2000 mg/kg

### SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

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## 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

POTASSIUM DISULFATE

LC50 - for Fish 680 mg/l/96h Pimephales promelas

EC50 - for Crustacea 720 mg/l/48h Daphnia magna

CITRIC ACID MONOHYDRATE

LC50 - for Fish 440 mg/l/96h Leuciscus idus

ZINC POWDER STABILIZED

LC50 - for Fish 7.1 mg/l/96h Nothobranchius guentheri

EC50 - for Crustacea 0.416 mg/l/48h Ceriodaphnia dubia

EC50 - for Algae / Aquatic Plants 0.015 mg/l/72h Pseudokirchneriella subcapitata

EC10 for Algae / Aquatic Plants 0.084 mg/l/72h Nitzschia closterium. Diatom. Bacillariaceae

Chronic NOEC for Fish 0.25 mg/l Salmo trutta

Chronic NOEC for Crustacea 0.05 mg/l Daphnia magna

12.2. Persistence and degradability

CITRIC ACID MONOHYDRATE

Solubility in water > 10000 mg/l

Rapidly degradable

ZINC POWDER STABILIZED

Solubility in water 0.1 - 100 mg/l

Degradability: information not available

12.3. Bioaccumulative potential

CITRIC ACID MONOHYDRATE

Partition coefficient: n-octanol/water -1.64 Log Kow

BCF 3.2

12.4. Mobility in soil

Information not available



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#### 12. Ecological information .../>>

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

## 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING** 

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## 14. Transport information

#### 14.1. UN number

ADR / RID, IMDG, IATA: 2923

#### 14.2. UN proper shipping name

ADR / RID: CORROSIVE SOLID, TOXIC, N.O.S. (Potassium Disulfate mixture) IMDG: CORROSIVE SOLID, TOXIC, N.O.S. (Potassium Disulfate mixture) IATA: CORROSIVE SOLID, TOXIC, N.O.S. (Potassium Disulfate mixture)

### 14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8 (6.1)

IMDG: Class: 8 Label: 8 (6.1)

IATA: Class: 8 Label: 8 (6.1)



## 14.4. Packing group

ADR / RID, IMDG, IATA: III

#### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 86 Limited Quantities: 5 kg Tunnel restriction code: (E)

Special Provision: -EMS: F-A, S-B

IMDG: EMS: F-A, S-B Limited Quantities: 5 kg
IATA: Cargo: Maximum quantity: 100 kg

Cargo: Maximum quantity: 100 Kg Packaging instructions: 864
Pass.: Maximum quantity: 25 Kg Packaging instructions: 860

Special Instructions: A3, A803

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

Information not relevant

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## 15. Regulatory information

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

U.S. Federal Regulations

Clean Air Act Section 112(b):

No component(s) listed.

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act - Priority Pollutants:

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

Clean Water Act - Toxic Pollutants:

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:

313 Category Code:

7727-43-7 BARIUM SULFATE (Barium compounds, Barium soluble compounds)

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

EPCRA 313 TRI:

7727-43-7 BARIUM SULFATE (Barium compounds, Barium soluble compounds)

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

RCRA Code:

No component(s) listed.

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations

Massachussetts:

7727-43-7 BARIUM SULFATE (Barium compounds, Barium soluble compounds)

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

Minnesota:

7727-43-7 BARIUM SULFATE (Barium compounds, Barium soluble compounds)

New Jersey:

7727-43-7 BARIUM SULFATE (Barium compounds, Barium soluble compounds)

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

New York:

**M** Milwaukee

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#### 15. Regulatory information .../>>

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

Pennsylvania:

7727-43-7 BARIUM SULFATE (Barium compounds, Barium soluble compounds)

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

California:

7440-66-6 ZINC POWDER STABILIZED (Zinc compounds)

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

vone

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Candadian WHMIS

Information not available

### 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H331 Toxic if inhaled.

**H314** Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

**H410** Very toxic to aquatic life with long lasting effects.

#### LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds



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## 16. Other information .../>>

- WHMIS: Workplace Hazardous Materials Information System.

#### GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the criteria set out in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

## Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 16.