

**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)**

## Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

### 1. Identification

**1.1. Product identifier**

Code: **C1098**  
Product name: **Cyanide Standard, 1000 ppm, (Free/ Simple)**

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use: **For laboratory use only.****1.3. Details of the supplier of the safety data sheet**

Name: **EXAXOL CHEMICAL CORPORATION**  
Full address: **14325 60 TH ST N**  
District and Country: **33760 CLEARWATER - FLORIDA**  
**US**  
Tel. **1-727-524-7732**  
Fax **1-727-532-8221**

e-mail address

**info@exaxol.com****1.4. Emergency telephone number**

For urgent inquiries refer to **1-800-255-3924**  
**ChemTel Inc.**

### 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

Hazard pictograms:

Acute toxicity, category 3

Toxic if swallowed.

Acute toxicity, category 4

Harmful if inhaled.



**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)**

Signal words:            Danger

## Hazard statements:

**H301**                    Toxic if swallowed.  
**H332**                    Harmful if inhaled.

## Precautionary statements:

## Prevention:

**P261**                    Avoid breathing dust / fume / gas / mist / vapours / spray.  
**P270**                    Do not eat, drink or smoke when using this product.  
**P271**                    Use only outdoors or in a well-ventilated area.  
**P264**                    Wash skin thoroughly after handling.

## Response:

**P301+P310**            IF SWALLOWED: immediately call a POISON CENTER / doctor.  
**P312**                    Call a POISON CENTER / doctor / . . . / if you feel unwell.  
**P304+P340**            IF INHALED: remove person to fresh air and keep comfortable for breathing.  
**P330**                    Rinse mouth.

## Storage:

**P405**                    Store locked up.

## Disposal:

**P501**                    Dispose of contents / container to an approved waste disposal plant.

**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 2

Toxic to aquatic life with long lasting effects.

## Hazard pictograms:



## Hazard statements:

**H411**                    Toxic to aquatic life with long lasting effects.

## Precautionary statements:

## Prevention:

**P273**                    Avoid release to the environment.

## Response:

**P391**                    Collect spillage.

## Storage:

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## Disposal:

**P501**                    Dispose of contents / container to an approved waste disposal plant.

## Additional hazards

**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)**

Contact with acids liberates very toxic gas.

### 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification	Conc. %	Classification:
<b>WATER</b>		
CAS 7732-18-5	99.75	
EC 231-791-2		
INDEX -		
<b>POTASSIUM CYANIDE</b>		
CAS 151-50-8	0.25	Substance or mixture corrosive to metals, category 1 H290, Acute toxicity, category 1 H300, Acute toxicity, category 1 H310, Acute toxicity, category 1 H330, Specific target organ toxicity - single exposure, category 1 H370, Specific target organ toxicity - repeated exposure, category 1 H372, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=10, Hazardous to the aquatic environment, chronic toxicity, category 1 H410 M=10
EC 205-792-3		
INDEX 006-007-00-5		

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, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Powder and spray in the eyes of this substance can be lethal!

**SKIN:** Remove contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Immediately call a poison center or doctor. Avoid further contact with contaminated clothing.

**INHALATION:** Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Immediately call a poison center or doctor.

**INGESTION:** Immediately call a poison center or doctor. Induce vomiting if the person is conscious. Rinse your mouth with running water. Do not give anything by mouth to an unconscious person.

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

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

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

Information not available

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)****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.

**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**

Evacuate area. Send away individuals who are not suitably equipped. 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. Use breathing equipment if powders are released into the air.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water. Avoid the formation of powder and dispersion of the product in the air.

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

Collect the leaked product and place it in containers for recovery or disposal. Make sure the leakage site is well aired. It may be advisable to wash with water any surfaces contaminated with traces of dust, without contaminating waste water.

**6.4. Reference to other sections**

Notify the competent authorities if the product has reached waterways or if it has contaminated the ground or vegetation.

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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)****7.3. Specific end use(s)**

Information not available

**8. Exposure controls/personal protection****8.1. Control parameters**

Regulatory References:

USA	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 2018

**POTASSIUM CYANIDE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-			5 (C)	4,7 (C)	SKIN
OEL	EU	1		5 (C)		SKIN
OSHA	USA	5				SKIN
OSHA	USA	5				SKIN
CAL/OSHA	USA	5				SKIN
CAL/OSHA	USA	5				SKIN
NIOSH	USA			5 (C)	4,7 (C)	

Legend:

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

**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**

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**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**

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If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

**ENVIRONMENTAL EXPOSURE CONTROLS**

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

Appearance	Not available
Colour	Not available
Odour	Not available
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 93 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1.00
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

**9.2. Other information**

Information not available

**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.

**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)**

POTASSIUM CYANIDE

Stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

POTASSIUM CYANIDE

Risk of explosion on contact with: strong oxidising agents,peroxides,potassium chlorate,potassium nitrites,potassium nitrate,sodium chlorate,sodium nitrite.May react violently with: fluorine,magnesium,sodium.Develops hydrogen cyanide on contact with: moisture,water,hydrogen fluoride,carbon dioxide,alkalis,acids.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.

POTASSIUM CYANIDE

Avoid exposure to: moist air,electrostatic discharges,naked flames,overheated surfaces,sources of heat.Avoid contact with: acids.

**10.5. Incompatible materials**

POTASSIUM CYANIDE

Incompatible with: aluminium,zinc,iron,tin.Compatible materials: polyethylene.

**10.6. Hazardous decomposition products**

POTASSIUM CYANIDE

May develop: hydrogen cyanide,ammonia.

**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**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)**

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

POTASSIUM CYANIDE

LD50 (Dermal) 14,3 mg/kg Rabbit

LC50 (Inhalation) 63 ppm/1h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

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

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE



**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)**

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 is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

**12.1. Toxicity**

POTASSIUM CYANIDE	
LC50 - for Fish	0,025 mg/l/96h
EC50 - for Crustacea	0,05 mg/l/48h Daphnia pulex
EC50 - for Algae / Aquatic Plants	0,05 mg/l/72h
Chronic NOEC for Fish	0,0011 mg/l Lepomis macrochirus

**12.2. Persistence and degradability**

POTASSIUM CYANIDE	
Solubility in water	> 10000 mg/l
Degradability: information not available	

**12.3. Bioaccumulative potential**

POTASSIUM CYANIDE	
BCF	3.162

**12.4. Mobility in soil**

POTASSIUM CYANIDE	
Partition coefficient: soil/water	0.3825

**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**

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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, 3413  
IATA:

**14.2. UN proper shipping name**

ADR / RID: POTASSIUM CYANIDE SOLUTION  
IMDG: POTASSIUM CYANIDE SOLUTION  
IATA: POTASSIUM CYANIDE SOLUTION

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

ADR / RID: Class: 6.1 Label: 6.1



IMDG: Class: 6.1 Label: 6.1



IATA: Class: 6.1 Label: 6.1

**14.4. Packing group**

ADR / RID, IMDG, III  
IATA:

**14.5. Environmental hazards**

ADR / RID: Environmentally  
Hazardous



IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 60

Limited  
Quantities: 5  
L

Tunnel  
restriction  
code: (E)

Special Provision: -

IMDG: EMS: F-A, S-A

Limited  
Quantities: 5  
L

**C1098 - Cyanide Standard, 1000 ppm, (Free/ Simple)**

IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 663
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 655
	Special Instructions:	A3	

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

Information not relevant

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**U.S. Federal RegulationsTSCA:

All components are listed on TSCA Inventory.

Clean Air Act Section 112(b):

151-50-8 POTASSIUM CYANIDE (Cyanides, Cyanides (inorganic salts))

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:

151-50-8 POTASSIUM CYANIDE (Cyanides, Cyanides (inorganic salts))

Clean Water Act –  
Toxic Pollutants:

151-50-8 POTASSIUM CYANIDE (Cyanides, Cyanides (inorganic salts))

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:

# EXAXOL CHEMICAL CORPORATION

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313 Category Code:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

EPCRA 302 EHS TPQ:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

EPCRA 304 EHS RQ:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

CERCLA RQ:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

EPCRA 313 TRI:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

RCRA Code:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

CAA 112 (r) RMP TQ:

No component(s) listed.

### State Regulations

#### Massachusetts:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

#### Minnesota:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

#### New Jersey:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

#### New York:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

#### Pennsylvania:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

#### California:

151-50-8

POTASSIUM CYANIDE (Cyanides,  
Cyanides (inorganic salts))

#### Proposition 65:

### International Regulations

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Canadian WHMIS

Information not available

## 16. Other information

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

<b>H290</b>	May be corrosive to metals.
<b>H300</b>	Fatal if swallowed.
<b>H310</b>	Fatal in contact with skin.
<b>H330</b>	Fatal if inhaled.
<b>H301</b>	Toxic if swallowed.
<b>H370</b>	Causes damage to organs.
<b>H332</b>	Harmful if inhaled.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	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

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- 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
- 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 Communication 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
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department 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.