

## HI96713B - Cal Check® Standard Cuvette B

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# Safety data sheet according to U.S.A. Federal Hazcom 2012 and Canadian Regulation SOR/88-66

SECTION 1. Identification of the substance/mixture and of the company/undertaking.

1.1. Product identifier.

Code. HI96713B

Product name. Cal Check® Standard Cuvette B

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

Intended use. Validation and Calibration of Hanna Portable Photometers that Measure LR

Phosphate.

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

Name. Hanna Instruments S.R.L.

Full address. str. Hanna Nr 1
District and Country. 457260 loc. Nusfalau

457260 loc. Nusfalau (Salaj)

Romania

Tel. (+40) 260607700 Fax. (+40) 260607700

e-mail address of the competent person.

responsible for the Safety Data Sheet. sds@hannainst.com

Product distribution by: Hanna Intruments, Inc - 584 Park East, Woonsochet, Rhode Island, USA 02895 -

Technical Service Contact Information: +1-800-426-6287

1.4. Emergency telephone number.

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

hours/365 days - International Emergency Contact Information: +1-703-527-3887 -

CHEMTREC 24hours/365 days

### **SECTION 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.

Substance or mixture corrosive to metals, category 1 May be corrosive to metals.

Skin corrosion, category 1A Causes severe skin burns and eye damage.

Serious eye damage, category 1 Causes serious eye damage.

Hazard pictograms:



Signal words: Danger

Hazard statements:

**H290** May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

Prevention:

**P280** Wear protective gloves, protective clothing, eye protection and face protection.

Response:

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



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SECTION 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.
P390 Absorb spillage to prevent material damage.

Storage:

Disposal:

#### 2.2. Other hazards.

Additional hazards.

Corrosive to the respiratory tract.

## **SECTION 3. Composition/information on ingredients.**

#### 3.1. Substances.

Information not relevant.

#### 3.2. Mixtures.

Contains:

Identification. x = Conc. %. Classification:

**NITRIC ACID** 

CAS. 7697-37-2 9 ≤ x < 15 Oxidising liquid, category 3 H272, Substance or mixture corrosive to metals,

category 1 H290, Acute toxicity, category 3 H331, Skin corrosion, category 1A H314

EC. 231-714-2 INDEX. 007-004-00-1 Reg. no. 01-2119487297-23

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

### **SECTION 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 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.

For symptoms and effects caused by the contained substances, see chap. 11.

NITRIC ACID

NITRIC ACID 65%: Irritation and corrosion, Cough, Shortness of breath, Bloody vomiting, death, Risk of blindness! The following applies to nitrites/nitrates in general: methaemoglobinaemia after the uptake of large quantities.

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

Information not available.

## **SECTION 5. Firefighting measures.**

#### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

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



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### SECTION 5. Firefighting measures. .../>>

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

NITRIC ACID

NITRIC ACID 65%: Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours. Fire may cause evolution of: nitrous gases, nitrogen oxides.

#### 5.3. Advice for firefighters.

**GENERAL INFORMATION** 

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

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).

## **SECTION 6. Accidental release measures.**

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

Block the leakage if there is no hazard.

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 into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. 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.

## **SECTION 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.

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

Information not available

### **SECTION 8. Exposure controls/personal protection.**

#### 8.1. Control parameters.

Regulatory References:

110 4	NUCCLI DEL	AUGOLI III II AI	0005 440 00 ' 0' 0007
	NIOSH-REL		
USA	MOSHINE	MICOLI DUDIICALIOLI MC.	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 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.



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SECTION 8. Exposure controls/personal protection.

TLV-ACGIH ACGIH 2016

Threshold Limit Value.           Type         Country         TWA/8h mg/m3 ppm         STEL/15min mg/m3 ppm           TLV-ACGIH         -         5.2         2         10.3         4           OEL         EU         2.6         1           OSHA         USA         5         2           CAL/OSHA         USA         5         2         10         4           NIOSH         USA         5         2         10         4						NITE	RIC ACID		
mg/m3         ppm         mg/m3         ppm           TLV-ACGIH         -         5.2         2         10.3         4           OEL         EU         2.6         1           OSHA         USA         5         2           CAL/OSHA         USA         5         2         10         4	Т	hreshold Limit V	/alue.						
TLV-ACGIH     -     5.2     2     10.3     4       OEL     EU     2.6     1       OSHA     USA     5     2       CAL/OSHA     USA     5     2     10     4		Туре	Country	TWA/8h		STEL/15	STEL/15min		
OEL       EU       2.6       1         OSHA       USA       5       2         CAL/OSHA       USA       5       2       10       4				mg/m3	ppm	mg/m3	ppm		
OSHA USA 5 2 CAL/OSHA USA 5 2 10 4		TLV-ACGIH	-	5.2	2	10.3	4		
CAL/OSHA USA 5 2 10 4		OEL	EU			2.6	1		
		OSHA	USA	5	2				
NIOSH USA 5 2 10 4		CAL/OSHA	USA	5	2	10	4		
		NIOSH	USA	5	2	10	4		

#### l egend

(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 (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### **EYE PROTECTION**

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

#### RESPIRATORY PROTECTION

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 and 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.

(199.4 °F)

## **SECTION 9. Physical and chemical properties.**

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

Appearance liquid light blue Colour Odour odourless Odour threshold. Not available. < 1 Melting point / freezing point. Not available. Not available. Initial boiling point. Boiling range. Not available. Flash point. 93 °C. Not available.

Evaporation rate Not available. Flammability (solid, gas) Lower inflammability limit. Not available. Upper inflammability limit. Not available Lower explosive limit. Not available. Upper explosive limit. Not available. Vapour pressure. Not available. Not available. Vapour density Relative density. 1,060

Solubility soluble in water Partition coefficient: n-octanol/water Not available. Auto-ignition temperature. Not available.



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## SECTION 9. Physical and chemical properties. ..../>

Decomposition temperature.

Viscosity

Explosive properties

Oxidising properties

Oxidising properties

9.2. Other information.

Not available.

Not available.

**5.2. Other information.**Total solids (250°C / 482°F) 9.96 %

## **SECTION 10. Stability and reactivity.**

#### 10.1. Reactivity.

NITRIC ACID

NITRIC ACID 65%: Decomposes at 84°C/183°F with possibility of self-ignition.

#### 10.2. Chemical stability.

Information not available.

#### 10.3. Possibility of hazardous reactions.

The product may react violently with water.

#### 10.4. Conditions to avoid.

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

NITRIC ACID

NITRIC ACID 65%: Exposure to heat and light.

#### 10.5. Incompatible materials.

NITRIC ACID

NITRIC ACID 65%: Flammable substances, reducing substances, alcohol, basic substances and metals; acetone, acetic acid, acetic anhydride and certain plastics.

## 10.6. Hazardous decomposition products.

NITRIC ACID

NITRIC ACID 65%: Nitric oxides.

## **SECTION 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.

NITRIC ACID

NITRIC ACID 65% - Acute oral toxicity, Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach - Acute inhalation toxicity, Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract, After a latency period:, Inhalation may lead to the formation of oedemas in the respiratory tract.

### ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: 20.000 mg/l

LC50 (Inhalation - mists / powders) of the mixture:

LD50 (Oral) of the mixture:

Not classified (no significant component).

NITRIC ACID

LC50 (Inhalation). 67 ppm/4h Rat

### SKIN CORROSION / IRRITATION.

Corrosive for the skin.

#### SERIOUS EYE DAMAGE / IRRITATION.

Causes serious eye damage.



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

#### 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.

Does not meet the classification criteria for this hazard class.

#### ASPIRATION HAZARD.

Does not meet the classification criteria for this hazard class.

## **SECTION 12. Ecological information.**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity.

NITRIC ACID

EC50 - for Crustacea. 180 mg/l/48h

## 12.2. Persistence and degradability.

NITRIC ACID

Solubility in water. > 1000000 mg/l

Biodegradability: Information not available.

#### 12.3. Bioaccumulative potential.

NITRIC ACID

Partition coefficient: n-octanol/water. < 3

#### 12.4. Mobility in soil.

Information not available.

#### 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.

NITRIC ACID

NITRIC ACID 65%: Biological effects, Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Does not cause biological oxygen deficit. Hazard for drinking water supplies.

## **SECTION 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.

Waste transportation may be subject to dangerous goods transport regulations.

CONTAMINATED PACKAGING

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



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## **SECTION 14. Transport information.**

14.1. UN number.

ADR / RID, IMDG, IATA: 3264

14.2. UN proper shipping name.

ADR / RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
IATA: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

14.3. Transport hazard class(es).

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group.

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards.

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user.

ADR / RID: HIN - Kemler: 80 Limited Quantities: 1 L Tunnel restriction code: (E)

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

IMDG:EMS: F-A, S-BLimited Quantities: 1 LIATA:Cargo:Maximum quantity: 30 L

Cargo: Maximum quantity: 30 L Packaging instructions: 855
Pass.: Maximum quantity: 1 L Packaging instructions: 851

Special Instructions: A3, A803

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

Information not relevant.

## **SECTION 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.

@EPY 9.2.8 - SDS 1003

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SECTION 15. Regulatory information. .../>>

Clean Water Act – Priority Pollutants:

No component(s) listed.

Clean Water Act – Toxic Pollutants:

No component(s) listed.

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:

7697-37-2 NITRIC ACID

EPCRA 302 EHS TPQ:

7697-37-2 NITRIC ACID

EPCRA 304 EHS RQ:

7697-37-2 NITRIC ACID

CERCLA RQ:

7697-37-2 NITRIC ACID

EPCRA 313 TRI:

7697-37-2 NITRIC ACID

RCRA Code:

No component(s) listed.

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations.

Massachussetts:

7697-37-2 NITRIC ACID

Minnesota:

7697-37-2 NITRIC ACID

New Jersey:

7697-37-2 NITRIC ACID

New York:

7697-37-2 NITRIC ACID

Pennsylvania:

7697-37-2 NITRIC ACID

California:

7697-37-2 NITRIC ACID

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:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None

Candadian WHMIS.

Information not available.



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### **SECTION 16. Other information.**

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

Ox. Liq. 3 Oxidising liquid, category 3

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 3
Skin Corr. 1A
Skin corrosion, category 1A
Eye Dam. 1
H272
May intensify fire; oxidiser.
H290
Acute toxicity, category 3
Skin corrosion, category 1A
Serious eye damage, category 1
May intensify fire; oxidiser.
May be corrosive to metals.

H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

#### 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
- 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
- 6 NYCRR part 597
- Cal/OSHA website



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

- 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.