

MS2 - Multi-Element Standard 2 in 5% Nitric Acid

Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

1. Identification

1.1. Product identifier

Code: **MS2**
Product name: **Multi-Element Standard 2 in 5% Nitric Acid**

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:

Skin corrosion, category 1

Causes severe skin
burns and eye
damage.

Serious eye damage, category 1

Causes serious eye
damage.

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Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

Prevention:

P260 Do not breathe dust / fume / gas / mist / vapours / spray.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P264 Wash skin thoroughly after handling.

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P310 Immediately call a POISON CENTER / doctor.
P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents / container to an approved waste disposal plant.**2.2. Other hazards**

Information not available

3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification	Conc. %	Classification:
WATER		
CAS 7732-18-5	94.884	
EC 231-791-2		
INDEX -		
NITRIC ACID		
CAS 7697-37-2	5	Oxidising liquid, category 2 H272, Skin corrosion, category 1A H314, Serious eye damage, category 1 H318
EC 231-714-2		
INDEX 007-004-00-1		
Silver Nitrate		
CAS 7761-88-8	0.002	Oxidising solid, category 2 H272, Substance or mixture corrosive to metals, category 1 H290, Acute toxicity, category 4 H302, Skin corrosion, category 1B H314, Serious eye damage, category 1 H318, Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=1000, Hazardous to the aquatic environment, chronic toxicity, category 1 H410 M=1
EC 231-853-9		

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INDEX 047-001-00-2

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 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.

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.

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**

Block the leakage if there is no hazard.

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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. 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.

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

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

NITRIC ACID**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m ³	ppm	mg/m ³	ppm
TLV-ACGIH	-	5.2	2	10.3	4
OEL	EU			2.6	1
OSHA	USA	5	2		

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CAL/OSHA	USA	5	2	10	4
NIOSH	USA	5	2	10	4

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

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.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	liquid
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

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Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
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**

NITRIC ACID

Decomposes at 84°C/183°F.Possibility of self-ignition.

10.2. Chemical stability

Silver Nitrate

Decomposes on contact with: light.

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

Avoid exposure to: heat,light.

Silver Nitrate

Avoid exposure to: light.

10.5. Incompatible materials

NITRIC ACID

Incompatible with: flammable substances, reducing substances, alcohol, metals, basic substances, acetone, acetic acid, acetic anhydride. Incompatible

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materials: plastic materials.

Silver Nitrate

Incompatible with: strong reducing agents, alcohols, ammonia, magnesium, strong bases.

10.6. Hazardous decomposition products

NITRIC ACID

May develop: nitric oxide.

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 effectsMetabolism, 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.

Silver Nitrate

LD50 (Oral) 1173 mg/kg rat

NITRIC ACID

LC50 (Inhalation) 67 ppm/4h Rat

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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

Carcinogenicity Assessment:
1314-62-1 Vanadium(V) Oxide
IARC:2B

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

12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity

Silver Nitrate

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LC50 - for Fish	0,006 mg/l/96h Oncorhynchus mykiss (rainbow trout)
EC50 - for Crustacea	0,0006 mg/l/48h Daphnia magna (water flea)
Chronic NOEC for Fish	0,108 mg/l Oncorhynchus mykiss (rainbow trout)

12.2. Persistence and degradability

NITRIC ACID

Solubility in water > 1000000 mg/l

Degradability: 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

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, 3264
IATA:**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)

MS2 - Multi-Element Standard 2 in 5% 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, III
IATA:**14.5. Environmental hazards**

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 88	Limited Quantities: -	Tunnel restriction code: (E)
	Special Provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: -	
IATA:	Cargo:	Maximum quantity: 2,5 L	Packaging instructions: 854
	Pass.:	Maximum quantity: 0,5 L	Packaging instructions: 850
	Special Instructions:	A3, A803	

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):

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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:

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
7789-02-8	Chromium(III) Nitrate Nonahydrate (Chromium III compounds)
10026-22-9	Cobalt(II) Nitrate Hexahydrate (Cobalt compounds)
13478-00-7	Nickel(II) Nitrate Hexahydrate (Nickel inorganic soluble compounds, Nickel compounds, Nickel soluble compounds)
15710-66-4	Manganese(II) Nitrate (Manganese inorganic compounds)
13778-31-9	Copper(II) Nitrate (Copper compounds)
13778-30-8	Zinc Nitrate (Zinc compounds)
1304-56-9	Beryllium Oxide (Beryllium compounds)
10022-68-1	Cadmium Nitrate Tetrahydrate (Cadmium soluble salts)
13453-38-8	Thallium(III) Nitrate Trihydrate (Thallium soluble compounds)
1314-62-1	Vanadium(V) Oxide (Vanadium compounds)
7783-34-8	Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)

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7761-88-8 Silver Nitrate (Silver soluble salts)
10099-74-8 Lead(II) Nitrate (Lead inorganic compounds)
7446-08-4 Selenium Dioxide (Selenium compounds)
1327-53-3 Arsenic Trioxide (Arsenic inorganic oxide)

EPCRA 302 EHS TPQ:

7697-37-2 NITRIC ACID
1314-62-1 Vanadium(V) Oxide (Vanadium compounds)
1327-53-3 Arsenic Trioxide (Arsenic inorganic oxide)

EPCRA 304 EHS RQ:

7697-37-2 NITRIC ACID
1314-62-1 Vanadium(V) Oxide (Vanadium compounds)
1327-53-3 Arsenic Trioxide (Arsenic inorganic oxide)

CERCLA RQ:

7697-37-2 NITRIC ACID
1314-62-1 Vanadium(V) Oxide (Vanadium compounds)
7761-88-8 Silver Nitrate (Silver soluble salts)
10099-74-8 Lead(II) Nitrate (Lead inorganic compounds)
7446-08-4 Selenium Dioxide (Selenium compounds)
1327-53-3 Arsenic Trioxide (Arsenic inorganic oxide)

EPCRA 313 TRI:

7697-37-2 NITRIC ACID
7789-02-8 Chromium(III) Nitrate Nonahydrate (Chromium III compounds)
10026-22-9 Cobalt(II) Nitrate Hexahydrate (Cobalt compounds)
13478-00-7 Nickel(II) Nitrate Hexahydrate (Nickel inorganic soluble compounds, Nickel compounds, Nickel soluble compounds)
15710-66-4 Manganese(II) Nitrate (Manganese inorganic compounds)
13778-31-9 Copper(II) Nitrate (Copper compounds)
13778-30-8 Zinc Nitrate (Zinc compounds)
1304-56-9 Beryllium Oxide (Beryllium compounds)
10022-68-1 Cadmium Nitrate Tetrahydrate (Cadmium soluble salts)
13453-38-8 Thallium(III) Nitrate Trihydrate (Thallium soluble compounds)
1314-62-1 Vanadium(V) Oxide (Vanadium compounds)
7783-34-8 Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)
7761-88-8 Silver Nitrate (Silver soluble salts)

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10099-74-8

Lead(II) Nitrate (Lead inorganic compounds)

7446-08-4

Selenium Dioxide (Selenium compounds)

1327-53-3

Arsenic Trioxide (Arsenic inorganic oxide)

RCRA Code:

1314-62-1

Vanadium(V) Oxide (Vanadium compounds)

1327-53-3

Arsenic Trioxide (Arsenic inorganic oxide)

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations

Massachusetts:

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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:

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

Canadian WHMIS

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Information not available

16. Other information

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

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
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
- 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

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- 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.