

## Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

### 1. Identification

#### 1.1. Product identifier

Code:  
Product name

**P6251**  
**Potassium Hydroxide 0.1N Solution in Methanol**

#### 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  
Full address  
District and Country

**EXAXOL CHEMICAL CORPORATION**  
14325 60 TH ST N  
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:

Flammable liquid, category 2

Highly flammable  
liquid and vapour.

Acute toxicity, category 3

Toxic if swallowed.

Acute toxicity, category 3

Toxic in contact with  
skin.

Acute toxicity, category 3

Toxic if inhaled.

Specific target organ toxicity - single exposure, category 1

Causes damage to  
organs.

Eye irritation, category 2

Causes serious eye  
irritation.

## P6251 - Potassium Hydroxide 0.1N Solution in Methanol

Skin irritation, category 2

Causes skin irritation.



Signal words: Danger

Hazard statements:

**H225** Highly flammable liquid and vapour.  
**H301+H311+H331** Toxic if swallowed, in contact with skin or if inhaled.  
**H370** Causes damage to organs.  
**H319** Causes serious eye irritation.  
**H315** Causes skin irritation.

Precautionary statements:

Prevention:

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P260** Do not breathe dust / fume / gas / mist / vapours / spray.  
**P242** Use only non-sparking tools.  
**P280** Wear protective gloves/ protective clothing / eye protection / face protection.  
**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.  
**P240** Ground / bond container and receiving equipment.  
**P243** Take precautionary measures against static discharge.  
**P241** Use explosion-proof electrical / ventilating / lighting / . . . / equipment.

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.  
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.  
**P301+P310** IF SWALLOWED: immediately call a POISON CENTER / doctor.  
**P311** Call a POISON CENTER / doctor.  
**P312** Call a POISON CENTER / doctor / . . . / if you feel unwell.  
**P332+P313** If skin irritation occurs: Get medical advice / attention.  
**P337+P313** If eye irritation persists: Get medical advice / attention.  
**P304+P340** IF INHALED: remove person to fresh air and keep comfortable for breathing.  
**P330** Rinse mouth.  
**P302+P352** IF ON SKIN: wash with plenty of water.  
**P361+P364** Take off immediately all contaminated clothing and wash it before reuse.  
**P362+P364** Take off contaminated clothing and wash it before reuse.  
**P370+P378** In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

**P403+P235** Store in a well-ventilated place. Keep cool.  
**P403+P233** Store in a well-ventilated place. Keep container tightly closed.  
**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

**P6251 - Potassium Hydroxide 0.1N Solution in Methanol****3.2. Mixtures**

Contains:

Identification	Conc. %	Classification:
<b>METHANOL</b>		
CAS 67-56-1	98	Flammable liquid, category 2 H225, Acute toxicity, category 3 H301, Acute toxicity, category 3 H311, Acute toxicity, category 3 H331, Specific target organ toxicity - single exposure, category 1 H370
EC 200-659-6		
INDEX 603-001-00-X		
<b>WATER</b>		
CAS 7732-18-5	1.292	
EC 231-791-2		
INDEX -		
<b>POTASSIUM HYDROXIDE</b>		
CAS 1310-58-3	0.708	Substance or mixture corrosive to metals, category 1 H290, Acute toxicity, category 4 H302, Skin corrosion, category 1A H314, Serious eye damage, category 1 H318
EC 215-181-3		
INDEX 019-002-00-8		

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**

Extinguishing substances are: carbon dioxide, foam, 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.

**P6251 - Potassium Hydroxide 0.1N Solution in Methanol****UNSUITABLE EXTINGUISHING EQUIPMENT**

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**

Excess pressure may form in containers exposed to fire at a risk of explosion. 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.

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.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

**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

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in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

### 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

### METHANOL

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	262	200	328	250
OEL	EU	260	200		SKIN
OSHA	USA	260	200		
CAL/OSHA	USA	260	200	325 (C)	1000 (C)
NIOSH	USA	260	200	325	250
					SKIN

### POTASSIUM HYDROXIDE

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-			2 (C)	
CAL/OSHA	USA	2			
NIOSH	USA			2 (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.

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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	> 35 °C (95 °F)
Boiling range	Not available
Flash point	< 23 °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	0.81
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**

**P6251 - Potassium Hydroxide 0.1N Solution in Methanol****10.1. Reactivity**

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

**POTASSIUM HYDROXIDE**

May develop: heat. May corrode: metals.

**10.2. Chemical stability**

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

**POTASSIUM HYDROXIDE**

Stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

The vapours may also form explosive mixtures with the air.

**POTASSIUM HYDROXIDE**

Develops hydrogen on contact with: metals. Develops heat on contact with: strong acids. Reacts violently with: water.

**10.4. Conditions to avoid**

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

**METHANOL**

Avoid exposure to: heat, flames and sparks.

**POTASSIUM HYDROXIDE**

Avoid exposure to: sources of heat. Keep away from: oxidising agents, acids, flammable substances, halogens, organic substances. Keep away from: lead, aluminium, copper, tin, sulphur, bronze. Absorbs atmospheric CO<sub>2</sub>.

Unstable on exposure to air. Freezing.

**10.5. Incompatible materials****METHANOL**

Incompatible with: acid chlorides, acid anhydrides, oxidising agents, alkaline metals, reducing agents, acids.

**10.6. Hazardous decomposition products**

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In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**POTASSIUM HYDROXIDE**

May develop: flammable gases.

**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

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 HYDROXIDE**

LD50 (Oral) 333 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

**P6251 - Potassium Hydroxide 0.1N Solution in Methanol**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

Causes damage to organs

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**

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**

Information not available

**12.2. Persistence and degradability****POTASSIUM HYDROXIDE**

Solubility in water > 10000 mg/l

Degradability: information not available

**METHANOL**

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

**12.3. Bioaccumulative potential****METHANOL**

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Partition coefficient: n-octanol/water -0.77

BCF 0.2

**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, 1992  
IATA:

**14.2. UN proper shipping name**

ADR / RID: FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)  
IMDG: FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)  
IATA: FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)

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

ADR / RID: Class: 3 Label: 3 (6.1)



IMDG: Class: 3 Label: 3 (6.1)

IATA: Class: 3 Label: 3 (6.1)

**14.4. Packing group**

ADR / RID, IMDG, II  
IATA:

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## 14.5. Environmental hazards

ADR / RID: NO  
IMDG: NO  
IATA: NO

## 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 336	Limited Quantities: 1 L	Tunnel restriction code: (D/E)
	Special Provision: -		
IMDG:	EMS: F-E, S-D	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Pass.:	Maximum quantity: 1 L	Packaging instructions: 352
	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 Regulations

## TSCA:

All components are listed on TSCA Inventory.

### Clean Air Act Section 112(b):

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### 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.

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## 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:

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EPCRA 302 EHS TPQ:

No component(s) listed.

### EPCRA 304 EHS RQ:

No component(s) listed.

## CERCLA RQ:

## EPCRA 313 TRI:

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RCRA Code:

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### CAA 112 (r) RMP TQ:

No component(s) listed.

## State Regulations

## Massachusetts:

## Minnesota:

### New Jersey:

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New York:

## Pennsylvania:

## California:

### Proposition 65:

WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

67-56-1 METHANOL D

## 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

Information not available

## 16. Other information

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

**H225** Highly flammable liquid and vapour.  
**H290** May be corrosive to metals.  
**H301** Toxic if swallowed.  
**H301+H311+H331** Toxic if swallowed, in contact with skin or if inhaled.  
**H311** Toxic in contact with skin.  
**H331** Toxic if inhaled.  
**H370** Causes damage to organs.  
**H302** Harmful if swallowed.

**P6251 - Potassium Hydroxide 0.1N Solution in Methanol**

H314 Causes severe skin burns and eye damage.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.

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