



SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 18/02/2011

Revision date: 23/10/2018

Supersedes: 12/07/2016

Version: 2.1

CLM-378

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

1.1. Product identifier

Product form	: Substance
Substance name	: SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY
EC Index-No.	: 006-007-00-5 (Unlabeled)
EC-No.	: 205-599-4 (Unlabeled)
CAS-No.	: 57991-39-6
Product code	: CLM-378
Formula	: Na ⁺ CN
Synonyms	: CNNa

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810
USA

USA: 1-800-322-1174 Int: 1-978-749-8000

cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)

International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 2 (Oral)	H300
Acute Tox. 1 (Dermal)	H310
Acute Tox. 2 (Inhalation:dust,mist)	H330
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

T; R25

T; R48/25

R32

N; R50/53

T+; R26/27/28

Full text of R-phrases: see section 16

GHS-US classification

Acute Tox. 1 (Oral)	H300
Acute Tox. 1 (Dermal)	H310
Acute Tox. 1 (Inhalation)	H330
Aquatic Chronic 1	H410

Full text of H statements : see section 16

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

CLM-378

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Adverse physicochemical, human health and environmental effects

Central nervous system, Blood, Lungs, Cardiovascular system, Thyroid.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P260 - Do not breathe dust, fume, gas, mist, spray, vapors.
P264 - Wash Both hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective clothing, protective gloves.
P284 - [In case of inadequate ventilation] wear Self contained breathing apparatus.
P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US)

: P260 - Do not breathe dust, fume, gas, mist, spray, vapors.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash Both hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective clothing, protective gloves.
P284 - [In case of inadequate ventilation] wear respiratory protection.
P301+P310 - If swallowed: Immediately call a poison center or doctor
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P310 - Immediately call a poison center or doctor
P320 - Specific treatment is urgent (see Hazard pictograms (CLP) on this label)
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)
P330 - Rinse mouth.
P361 - Take off immediately all contaminated clothing.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

CLM-378

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	Classification according to Directive 67/548/EEC
SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY	(CAS-No.) 57991-39-6 (EC-No.) 205-599-4 (Unlabeled) (EC Index-No.) 006-007-00-5 (Unlabeled)	100	T; R25 T; R48/25 R32 N; R50/53 T+; R26/27/28

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY	(CAS-No.) 57991-39-6 (EC-No.) 205-599-4 (Unlabeled) (EC Index-No.) 006-007-00-5 (Unlabeled)	100	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY (Main constituent)	(CAS-No.) 57991-39-6	100	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. and soap. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.

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

Symptoms/effects after inhalation	: Fatal if inhaled.
Symptoms/effects after skin contact	: Fatal in contact with skin.
Symptoms/effects after eye contact	: Contact may cause eye irritation.
Symptoms/effects after ingestion	: Fatal if swallowed.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

CLM-378

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed.
Storage conditions : Store at room temperature, desiccated and away from light.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY (57991-39-6)		
Italy - Portugal - USA ACGIH	ACGIH Ceiling (mg/m ³)	5 mg/m ³ Upper Respiratory Tract irritation. Headache. Nausea. Thyroid effects. Danger of cutaneous absorption. Varies.
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	5 mg/m ³ 10 minute ceiling.
USA NIOSH	NIOSH REL (ceiling) (ppm)	4.7 ppm 10 minute ceiling.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ Skin designation.

Additional information : PEL 5 mg/m³ - California permissible exposure limits for chemical contaminants. Skin.

8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves.
Hand protection : Wear suitable protective clothing and gloves.
Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Crystalline
Molecular mass : 50 g/mol (Labeled)
Color : White
Odor : Odourless
Odor threshold : No data available
pH : 11.0 - 12.0 at 49.0 g/l at 25 °C (77 °F)

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

CLM-378

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 563.7 °C (1,046.7 °F) - lit
Freezing point	: No data available
Boiling point	: 1500 °C (2,732 °F) at 1.013 hPa (0.760 mmHg)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 1 hPa (1mmHg) at 817 °C (1,503 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: 1.59 g/cm ³ at 20 °C (68 °F)
Solubility	: Water: 49 g/l at 20 °C (68 °F) - soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Two years after receipt of order if stored as above. Re-QC after two years.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Do not store near acids, Strong oxidizing agents, Carbon dioxide.

10.6. Hazardous decomposition products

Carbon oxides, Sodium oxides, Reacts with water to form Hydrogen cyanide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Fatal if swallowed. Dermal: Fatal in contact with skin. Inhalation:dust,mist: Fatal if inhaled.

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY (57991-39-6)	
LD50 oral rat	4.7 mg/kg Remarks: Behavioral: Tetany. Behavioral: Ataxia. Lungs, Thorax, or Respiration: Respiratory obstruction.
LD50 dermal rabbit	10.4 mg/kg Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Tremor. Lungs, Thorax, or Respiration: Dyspnea.
ATE CLP (oral)	6.440 mg/kg body weight
ATE CLP (dermal)	10.400 mg/kg body weight
ATE CLP (dust, mist)	0.050 mg/l/4h
Additional information	LD50 Intramuscular - Rabbit - 1.666 mg/kg. LD50 Intraperitoneal - Rat - 4.3 mg/kg. LD50 Intraperitoneal - Mouse - 4.9 mg/kg

Skin corrosion/irritation	: Not classified pH: 11.0 - 12.0 at 49.0 g/l at 25 °C (77 °F)
Serious eye damage/irritation	: Not classified pH: 11.0 - 12.0 at 49.0 g/l at 25 °C (77 °F)
Respiratory or skin sensitization	: Not available
Germ cell mutagenicity	: Ames test. Salmonella typhimurium. Result: Negative
Carcinogenicity	: Not classified

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

CLM-378

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Reproductive toxicity	: Reproductive toxicity - rat - Oral. Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Paternal Effects: Testes, epididymis, sperm duct. . Reproductive toxicity - Hamster - Implant. Effects on Fertility: Post-implantation mortality (e.g, dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Central nervous system. . Developmental Toxicity - Hamster - Implant. Effects on Embryo or Fetus: Fetotoxicity (except death, e.g, stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Cardiovascular (circulatory) system.
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: Fatal if inhaled.
Symptoms/effects after skin contact	: Fatal in contact with skin.
Symptoms/effects after eye contact	: Contact may cause eye irritation.
Symptoms/effects after ingestion	: Fatal if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY (57991-39-6)	
LC50 fish 1	0.04 mg/l static Test LC50 - Tilapia mossambica - 96 h
EC50 Daphnia 1	0.09 mg/l Daphnia magna (Water flea) - 96 h
ErC50 (algae)	0.051 mg/l Nitzschia closterium - 72 h

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No.(DOT)	: 1689
DOT NA no.	UN1689

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Sodium cyanide, solid
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

CLM-378

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard labels (DOT) : 6.1 - Poison



Packing group (DOT) : I - Great Danger

DOT Special Provisions (49 CFR 172.102) : B69 - Dry sodium cyanide or potassium cyanide may be shipped in sift-proof weather-resistant metal covered hopper car, covered motor vehicles, portable tanks or non-specification bins. Bins must be approved by the Associate Administrator.

B77 - Other packaging are authorized when approved by the Associate Administrator.
IB7 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Wooden (11C, 11D and 11F). Additional Requirement: Liners of wooden IBCs must be sift-proof.

N74 - Packages consisting of tightly closed inner containers of glass, earthenware, metal or polyethylene, capacity not over 0.5 kg (1.1 pounds) securely cushioned and packed in outer wooden barrels or wooden or fiberboard boxes, not over 15 kg (33 pounds) net weight, are authorized and need not conform to the requirements of part 178 of this subchapter.

N75 - Packages consisting of tightly closed inner packaging of glass, earthenware or metal, securely cushioned and packed in outer wooden barrels or wooden or fiberboard boxes, capacity not over 2.5 kg (5.5 pounds) net weight, are authorized and need not conform to the requirements of part 178 of this subchapter.

T6 - 4 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : None

DOT Packaging Non Bulk (49 CFR 173.xxx) : 211

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT RQ : 10 lbs

Marine pollutant : DOT: No IMDG: Yes



14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : I

Class (ADR) : 6.1 - Toxic substances

Hazard identification number (Kemler No.) : 66

Classification code (ADR) : T5

Hazard labels (ADR) : 6.1 - Toxic substances



Orange plates



Tunnel restriction code (ADR) : C/E

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

CLM-378

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Limited quantities (ADR) : 0
EAC : 2X
Excepted quantities (ADR) : E5

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other : 52 - Stow "separated from" acids
MFAG-No : 157

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 kg
(49 CFR 173.27)
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 50 kg
Civil Aeronautics Law : Toxic and infectious substances/Toxic substances

14.4. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

14.5. Special precautions for user

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY (57991-39-6)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Subject to reporting requirements of United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

15.2. International regulations

CANADA

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY (57991-39-6)
Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY (57991-39-6)	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S. - Massachusetts - Right To Know List

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY

CLM-378

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SODIUM CYANIDE (13C, 99%) 96% CHEMICAL PURITY(57991-39-6)

U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

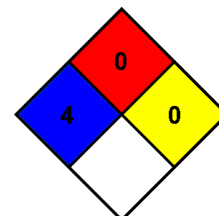
Full text of R-, H- and EUH-phrases:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
H300	Fatal if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R25	Toxic if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R32	Contact with acids liberates very toxic gas
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
T	Toxic
T+	Very toxic

NFPA health hazard : 4 - Materials that, under emergency conditions, can be lethal.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

CIL Substance SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product