



ANILINE-RING-D5 (D, 98%)

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: 14/01/2011

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Version: 3.2

DLM-862

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

1.1. Product identifier

Product form	: Substance
Substance name	: ANILINE-RING-D5 (D, 98%)
EC Index-No.	: 612-008-00-7 (Unlabeled)
EC-No.	: 224-015-9
CAS-No.	: 4165-61-1
Product code	: DLM-862
Formula	: C6D5NH2

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. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation:dust,mist)	H331
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 2	H341
Carc. 2	H351
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

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

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

Carc.Cat.3; R40
N; R50/53
Muta.Cat.3; R68
Xi; R41
R43
T; R48/23/24/25

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 4	H227
Acute Tox. 3 (Oral)	H301

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Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Inhalation)	H331
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 2	H341
Carc. 2	H351
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Blood, Bladder, Kidney, Central nervous system.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

GHS06

GHS05

GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H341 - Suspected of causing genetic defects (if inhaled, if swallowed, in contact with skin)
H351 - Suspected of causing cancer (in contact with skin, if inhaled, if swallowed)
H372 - Causes damage to organs (blood) through prolonged or repeated exposure (if inhaled, if swallowed, in contact with skin)
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P260 - Do not breathe mist, spray.
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.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

GHS06

GHS05

GHS09

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H227 - Combustible liquid
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H341 - Suspected of causing genetic defects (Dermal, Inhalation, oral)
H351 - Suspected of causing cancer (Dermal, Inhalation, oral)
H372 - Causes damage to organs (blood) through prolonged or repeated exposure (Dermal, Inhalation, oral)
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
P260 - Do not breathe mist, spray.
P261 - Avoid breathing mist, spray.
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.
P272 - Contaminated work clothing must not be allowed out of the workplace

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P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P301+P310 - If swallowed: Immediately call a poison center or doctor
P302+P352 - If on skin: Wash with plenty of water
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center or doctor
P311 - Call a poison center or doctor
P312 - Call a poison center or doctor if you feel unwell
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)
P330 - Rinse mouth.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P361 - Take off immediately all contaminated clothing.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
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

Name	Product identifier	%	Classification according to Directive 67/548/EEC
ANILINE-RING-D5 (D, 98%)	(CAS-No.) 4165-61-1 (EC-No.) 224-015-9 (EC Index-No.) 612-008-00-7 (Unlabeled)	100	Carc.Cat.3; R40 N; R50/53 Muta.Cat.3; R68 Xi; R41 R43 T; R48/23/24/25

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ANILINE-RING-D5 (D, 98%)	(CAS-No.) 4165-61-1 (EC-No.) 224-015-9 (EC Index-No.) 612-008-00-7 (Unlabeled)	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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

Name	Product identifier	%	GHS-US classification
ANILINE-RING-D5 (D, 98%) (Main constituent)	(CAS-No.) 4165-61-1	100	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- First-aid measures after skin contact : Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
- First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

- Symptoms/effects after inhalation : Toxic if inhaled. Causes respiratory tract irritation.
- Symptoms/effects after skin contact : Toxic if absorbed through skin. May cause skin irritation.
- Symptoms/effects after eye contact : Causes serious eye damage.
- Symptoms/effects after ingestion : Toxic 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 : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use water spray to cool unopened containers.

6.1.1. For non-emergency personnel

- Emergency procedures : Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

- For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place. Opened containers must be carefully resealed and kept upright to prevent leakage.
- Storage conditions : Room temperature. Slight discoloration is normal.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ANILINE-RING-D5 (D, 98%) (4165-61-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2.00000000 ppm Methemoglobinemia. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Confirmed animal carcinogen with unknown relevance to humans. Danger of cutaneous absorption.
USA OSHA	OSHA PEL (TWA) (ppm)	5 ppm Skin contact does contribute to exposure. USA Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants.
USA OSHA	OSHA PEL (STEL) (mg/m ³)	19 mg/m ³ Skin designation. Potential Occupational Carcinogen. USA Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants.
USA OSHA	Remark (OSHA)	PEL 2 ppm (7.6 mg/m ³) California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2. Exposure controls

Personal protective equipment : Safety glasses. Gloves. Respiratory protection of the dependent type. Protective clothing.



Hand protection : Wear suitable protective clothing and gloves.
Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid, oily.
Molecular mass : 98.16 g/mol (Labeled)
Color : Yellowish to brownish.
Odor : Musty, fishy odor.
Odor threshold : No data available
pH : 8.8 at 36 g/l at 20 °C (68 °F)
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : -6 °C (21 °F) - lit.
Freezing point : No data available
Boiling point : 184 °C (363 °F) - lit.
Flash point : 70 °C (158 °F) - closed cup
Auto-ignition temperature : No data available
Decomposition temperature : 190 °C (374 °F)
Flammability (solid, gas) : No data available
Vapor pressure : 0.49 hPa (0.37 mmHg) at 20 °C (68 °F). 0.8 hPa (0.6 mmHg) at 20 °C (68 °F)
Relative vapor density at 20 °C : 3.22 - (Air = 1.0)
Relative density : No data available
Specific gravity / density : 1.022 g/ml at 25 °C (77 °F)
Solubility : Water: Soluble
Log Pow : 0.91
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

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Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : 1.3 - 23 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

One year after receipt of order if stored as stated in "Storage" section. Re-QC after one year.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Avoid Heat, Flames and Sparks.

10.5. Incompatible materials

Oxidizing agents, Iron and iron salts, Zinc.

10.6. Hazardous decomposition products

Formed under fire conditions: Carbon oxides, nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

ANILINE-RING-D5 (D, 98%) (4165-61-1)	
LD50 oral rat	250 mg/kg
LD50 dermal rabbit	836 mg/kg
LC50 inhalation rat (ppm)	248 ppm 4 h (Mouse)
ATE CLP (oral)	250.000 mg/kg body weight
ATE CLP (dermal)	820.000 mg/kg body weight
ATE CLP (dust, mist)	0.500 mg/l/4h

Skin corrosion/irritation : Not classified
Rabbit - Result: No skin irritation.
pH: 8.8 at 36 g/l at 20 °C (68 °F)

Serious eye damage/irritation : Causes serious eye damage.
Eyes - rabbit - Severe eye irritation
pH: 8.8 at 36 g/l at 20 °C (68 °F)

Respiratory or skin sensitization : May cause sensitization by skin contact.
No data available

Germ cell mutagenicity : Laboratory experiments have shown mutagenic effects. . In vitro tests showed mutagenic effects.

Carcinogenicity : This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies.

Reproductive toxicity : Not available

Specific target organ toxicity – single exposure : Not classified
No data available

Specific target organ toxicity – repeated exposure : Causes damage to organs (blood) through prolonged or repeated exposure (if inhaled, if swallowed, in contact with skin).
No data available

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Cyanosis. Headache. Nausea. Vomiting. Incoordination. Fatigue. Dizziness. Drowsiness. Confusion. Weakness. Unconsciousness. Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Stomach - Irregularities - Based on Human Evidence. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

IARC group : 3

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Symptoms/effects after inhalation	: Toxic if inhaled. Causes respiratory tract irritation.
Symptoms/effects after skin contact	: Toxic if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Toxic if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

ANILINE-RING-D5 (D, 98%) (4165-61-1)	
LC50 fish 1	10.6 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	80 - 380 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	19 mg/l Selenastrum - 72 h
EC50 Daphnia 2	0.16 mg/l Daphnia magna (Water flea) - 48 h

12.2. Persistence and degradability

ANILINE-RING-D5 (D, 98%) (4165-61-1)	
Persistence and degradability	Biodegradability: Result - Readily biodegradable.
Biodegradation	90 % 30 d (OECD Test Guideline 301D)

12.3. Bioaccumulative potential

ANILINE-RING-D5 (D, 98%) (4165-61-1)	
Log Pow	0.91
Bioaccumulative potential	Not available.

12.4. Mobility in soil

ANILINE-RING-D5 (D, 98%) (4165-61-1)	
Ecology - soil	Not 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 life with long lasting effects.

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.
Waste treatment methods	: Burn in a chemical incinerator equipped with an afterburner and a scrubber, but use extra care in ignition as this material may be pyrophoric, highly flammable or explosive. Attention : national and/or local laws and regulations may preclude the use of this method.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Dispose as unused product.

SECTION 14: Transport information

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

14.1. UN number

UN-No.(DOT)	: 1547
DOT NA no.	UN1547

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Aniline
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison



DOT Symbols	: + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group
Packing group (DOT)	: II - Medium Danger

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DOT Special Provisions (49 CFR 172.102)	: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT RQ	: 5000 lbs
Marine pollutant	: No



14.3. Additional information

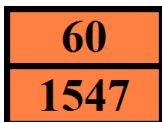
Other information : No supplementary information available.

Overland transport

Packing group (ADR)	: II
Class (ADR)	: 6.1 - Toxic substances
Hazard identification number (Kemler No.)	: 60
Classification code (ADR)	: T1
Hazard labels (ADR)	: 6.1 - Toxic substances



Orange plates :



Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 100ml
EAC	: •3X
Excepted quantities (ADR)	: E4

Transport by sea

DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters", 52 - Stow "separated from" acids
MFAG-No	: 153

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Toxic and infectious substances/Toxic substances

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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

ANILINE-RING-D5 (D, 98%) (4165-61-1)

Listed on the United States SARA Section 302

Subject to reporting requirements of United States SARA Section 313

SARA Section 311/312 Hazard Classes

Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

15.2. International regulations

CANADA

ANILINE-RING-D5 (D, 98%) (4165-61-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

ANILINE-RING-D5 (D, 98%)(4165-61-1)

U.S. - California - Proposition 65 - Carcinogens List	Yes
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	RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause cancer.

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. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1

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Muta. 2	Germ cell mutagenicity Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H301	Toxic if swallowed
H311	Toxic in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
R40	Limited evidence of a carcinogenic effect
R41	Risk of serious damage to eyes
R43	May cause sensitization by skin contact
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R68	Possible risk of irreversible effects
N	Dangerous for the environment
T	Toxic
Xi	Irritant

NFPA health hazard

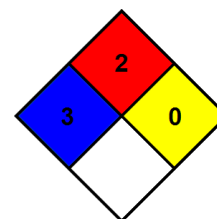
: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity

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



Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 2 Moderate 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