



DESETHYLHYDROXYATRAZINE UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 22/09/2014

Revision date:

Version: 1.0

ULM-8322-S

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

1.1. Product identifier

Product form : Mixture
Product name. : DESETHYLHYDROXYATRAZINE UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE
Product code : ULM-8322-S

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: 1-202-483-7616 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
Resp. Sens. 1	H334
Skin Sens. 1	H317

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11
Xn; R21
R42
Xi; R41
R43

Full text of R-phrases: see section 16

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GHS-US classification

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
Resp. Sens. 1	H334
Skin Sens. 1	H317
Aquatic Acute 3	H402

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

DIETHYLAMINE UNLABELED

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P261 - Avoid breathing fume, mist, spray, vapours
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

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapour
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H402 - Harmful to aquatic life

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing fume, mist, spray, vapours
P264 - Wash Both hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product

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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
 P284 - Wear respiratory protection
 P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position 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
 P310 - Immediately call a POISON CENTER or doctor/physician
 P312 - Call a POISON CENTER/doctor/physician if you feel unwell
 P330 - If swallowed, rinse mouth
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
 P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
 P362 - Take off contaminated clothing and wash before reuse
 P362+P364 - Take off contaminated clothing and wash it before reuse
 P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide., Dry chemical, Water spray for extinction
 P403+P235 - Store in a well-ventilated place. Keep cool
 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

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
WATER UNLABELED	(CAS No)7732-18-5 (Unlabeled) (EC no)231-791-2	84.9478	Not classified
DIETHYLAMINE UNLABELED	(CAS No)109-89-7 (EC no)203-716-3	15.0416	Xn; R20/21/22 T; R24 Xi; R38 Xi; R41 R42 R43 F; R11 R52
DESETHYLHYDROXYATRAZINE UNLABELED	(CAS No)19988-24-0 (Unlabeled)	0.0106	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER UNLABELED	(CAS No)7732-18-5 (Unlabeled) (EC no)231-791-2	84.9478	Not classified
DIETHYLAMINE UNLABELED	(CAS No)109-89-7 (EC no)203-716-3	15.0416	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
DESETHYLHYDROXYATRAZINE UNLABELED	(CAS No)19988-24-0 (Unlabeled)	0.0106	Not classified

Name	Product identifier	%	GHS-US classification
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DIETHYLAMINE UNLABELED	(CAS No)109-89-7	15.0416	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 3, H402
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Full text of R-, H- and EUH-phrases: see section 16

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 breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell.

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

- Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

- Fire hazard : Highly flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.
- Reactivity : Vapors may form explosive mixture with air.

5.3. Advice for firefighters

- 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 : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

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.

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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 : Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools.
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 : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions : Store at room temperature away from light and moisture.
Incompatible materials : Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DESETHYLHYDROXYATRAZINE UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE		
Italy - Portugal- USA ACGIH	ACGIH TWA (ppm)	5.0000000000 ppm Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen
Italy - Portugal- USA ACGIH	ACGIH STEL (ppm)	15.0000000000 ppm Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen
DIETHYLAMINE UNLABELED (109-89-7)		
Italy - Portugal- USA ACGIH	ACGIH TWA (ppm)	5.0000000000 ppm Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen
Italy - Portugal- USA ACGIH	ACGIH STEL (ppm)	15.0000000000 ppm Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen
USA OSHA	OSHA PEL (TWA) (ppm)	10.0000000000 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	25.0000000000 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000

8.2. Exposure controls

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



Hand protection : protective gloves.
Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

Physical state : Liquid
Appearance : Liquid.
Molecular mass : 73.14
Colour : No data available.
Odour : No data available.
Odour threshold : No data available
pH : 13 at 100 g/l at 20 °C (68 °F)
Relative evaporation rate (butylacetate=1) : No data available
Melting point : -50 °C (-58 °F)
Freezing point : No data available

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Boiling point	: 55 °C (131 °F)
Flash point	: -23 °C (-9 °F) - closed cup
Self ignition temperature	: 312 °C (594 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour
Vapour pressure	: 241.936 hPa (181.467 mmHg) at 20°C (68°F),974.637 hPa(731.038 mmHg) at 20°C (68°F)
Relative vapour density at 20 °C	: 2.53 - (Air = 1.0)
Relative density	: No data available
Solubility	: Water: 100 %
Log Pow	: 0.58
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1.8 - 10.1 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapors may form explosive mixture with air.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Direct sunlight.

10.5. Incompatible materials

Aldehydes, Alcohols, Dicyanofurazan, Ketones, Phenols, Acids, Halogenated.

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

DESETHYLHYDROXYATRAZINE UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE	
LD50 oral rat	540 mg/kg
LD50 dermal rabbit	577 mg/kg
LC50 inhalation rat (ppm)	4000 ppm - 4h
ATE (oral)	500.000 mg/kg bodyweight
ATE (dermal)	1100.000 mg/kg bodyweight
ATE (gases)	4500.000 ppmV/4h
ATE (vapours)	11.000 mg/l/4h
ATE (dust,mist)	1.500 mg/l/4h

DIETHYLAMINE UNLABELED (109-89-7)	
LD50 oral rat	540 mg/kg
LD50 dermal rabbit	577 mg/kg
LC50 inhalation rat (ppm)	4000 ppm - 4h
ATE (oral)	540.000 mg/kg bodyweight
ATE (dermal)	577.000 mg/kg bodyweight
ATE (dust,mist)	1.500 mg/l/4h

WATER UNLABELED (7732-18-5 (Unlabeled))	
LD50 oral rat	> 90000 mg/kg

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Skin corrosion/irritation	:	Causes skin irritation. Skin - rabbit - Severe skin irritation pH: 13 at 100 g/l at 20 °C (68 °F)
Serious eye damage/irritation	:	Causes serious eye damage. No data available pH: 13 at 100 g/l at 20 °C (68 °F)
Respiratory or skin sensitisation	:	Not available May cause allergic respiratory and skin reactions.
Germ cell mutagenicity	:	Not available
Carcinogenicity	:	This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification.
Reproductive toxicity	:	Not available
Specific target organ toxicity (single exposure)	:	Not classified No data available
Specific target organ toxicity (repeated exposure)	:	Not classified No data available
Aspiration hazard	:	Not classified
Potential Adverse human health effects and symptoms	:	Harmful if swallowed. Harmful in contact with skin.
Symptoms/injuries after inhalation	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Symptoms/injuries after skin contact	:	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	:	Causes serious eye damage.
Symptoms/injuries after ingestion	:	Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

DESETHYLHYDROXYATRAZINE UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE	
LC50 fishes 1	25 - 198 mg/l Orcoerhynchus mykiss (Rainbow trout) - 96h
EC50 Daphnia 1	56 mg/l Daphnia magna (Water flea) - 48h
ErC50 (algae)	20 mg/l 96h
DIETHYLAMINE UNLABELED (109-89-7)	
LC50 fishes 1	25 - 198 mg/l Orcoerhynchus mykiss (Rainbow trout) - 96h
EC50 Daphnia 1	56 mg/l Daphnia magna (Water flea) - 48h
ErC50 (algae)	20 mg/l 96h

12.2. Persistence and degradability

WATER UNLABELED (7732-18-5 (Unlabeled))	
Persistence and degradability	Not available.
DESETHYLHYDROXYATRAZINE UNLABELED (19988-24-0 (Unlabeled))	
Persistence and degradability	Not available.

12.3. Bioaccumulative potential

DESETHYLHYDROXYATRAZINE UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE	
Log Pow	0.58
Bioaccumulative potential	Not available.
DIETHYLAMINE UNLABELED (109-89-7)	
Log Pow	0.58
Bioaccumulative potential	Not available.
WATER UNLABELED (7732-18-5 (Unlabeled))	
Log Pow	No data available
Bioaccumulative potential	Not available.
DESETHYLHYDROXYATRAZINE UNLABELED (19988-24-0 (Unlabeled))	

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Bioaccumulative potential	Not available.
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12.4. Mobility in soil

DESETHYLHYDROXYATRAZINE UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE

Ecology - soil	Not available.
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DIETHYLAMINE UNLABELED (109-89-7)

Ecology - soil	Not available.
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WATER UNLABELED (7732-18-5 (Unlabeled))

Ecology - soil	Not available.
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DESETHYLHYDROXYATRAZINE UNLABELED (19988-24-0 (Unlabeled))

Ecology - soil	Not available.
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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 an unprofessional handling or disposal. Harmful to aquatic life.

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 disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

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

14.1. UN number

UN-No.(DOT) : 1154
 DOT NA no. UN1154

14.2. UN proper shipping name

DOT Proper Shipping Name : Diethylamine

Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid
 8 - Corrosive



Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : A3 - For combination packagings, if glass inner packagings (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packagings.
 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.
 N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.
 T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
 TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
 DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
 DOT Packaging Bulk (49 CFR 173.xxx) : 243

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14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : II
Class (ADR) : 3 - Flammable liquids
Hazard identification number (Kemler No.) : 338
Classification code (ADR) : FC
Danger labels (ADR) : 3 - Flammable liquids
8 - Corrosive substances



Orange plates :



Tunnel restriction code : D/E
Limited quantities (ADR) : 1L
EAC code : •2WE
APP code : A(fl)
Excepted quantities (ADR) : E2

Transport by sea

DOT Vessel Stowage Location : E - 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, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"
MFAG-No : 132

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 5 L
Civil Aeronautics Law : Flammable liquids(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

14.4. Environmental hazards

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

DESETHYLHYDROXYATRAZINE UNLABELED 100 UG/ML IN 80% H2O/ 20% DIETHYLAMINE	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
DIETHYLAMINE UNLABELED (109-89-7)	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard

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15.2. International regulations

CANADA

No additional information available

15.2.1. National regulations

No additional information available

15.3. US State regulations

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State or local regulations

U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

DIETHYLAMINE UNLABELED (109-89-7)

U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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.

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

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21	Harmful in contact with skin
R24	Toxic in contact with skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R42	May cause sensitization by inhalation
R43	May cause sensitisation by skin contact
R52	Harmful to aquatic organisms
F	Highly flammable
T	Toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health

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

Flammability

: 3 Serious Hazard

Physical

: 0 Minimal Hazard

CIL Mixture 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