

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: 04/03/2015

Revision date: 16/11/2015

Version: 1.0

DLM-1149

1.1. Product identifier	
Product form	: Substance
Substance name	: ATRAZINE (ETHYLAMINE-D5, 98%)
EC index no	: 613-068-00-7 (Unlabeled)
EC no	: 217-617-8 (Unlabeled)
CAS No	: 163165-75-1
Product code	: DLM-1149
Formula	: C8D5H9CIN5
Synonyms	: 2-Chloro-4ethylamino-6isopropylamino-1,3,5-triazine
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec	: For professional use only.
1.2.2.Uses advised againstNo additional information available	
1.3. Details of the supplier of the safet	ty 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	
cilsales@isotope.com www.isotope.com Emergency telephone number Emergency numbers: Chemtrec: 1-800-424-9300 (24 hours)	
cilsales@isotope.com www.isotope.com Emergency telephone number	

Acute Tox. 4 (Oral)H302Skin Sens. 1H317Aquatic Acute 1H400 (M=10)Aquatic Chronic 1H410

Full text of H-phrases: see section 16

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

Xn; R22 N; R51/53 Full text of R-phrases: see section 16

GHS-US classification

Acute Tox. 4 (Oral)H302Skin Sens. 1H317Aquatic Acute 1H400Aquatic Chronic 1H410

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS09
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapours P264 - Wash Both hands thoroughly after handling P270 - Do no eat, drink or smoke when using this product 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+P312 - IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell P302+P352 - IF ON SKIN: Wash with plenty of water/
GHS-US labelling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS07 GHS09 : Warning
Hazard statements (GHS-US)	 H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapours P264 - Wash Both hands thoroughly after handling P270 - Do no eat, drink or smoke when using this product 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 gloves, protective clothing P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwel P302+P352 - IF ON SKIN: Wash with plenty of soap and water P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P330 - If swallowed, rinse mouth P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P391 - Collect spillage P501 - Dispose of contents/container to Comply with applicable regulations.

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ATRAZINE (ETHYLAMINE-D5, 98%) (Main constituent)	(CAS No) 163165-75-1 (EC no) 217-617-8 (Unlabeled) (EC index no) 613-068-00-7 (Unlabeled)	100	Xn; R22 N; R51/53
Name	Product identifier	%	Classification according to Regulation (EC) No.
			1272/2008 [CLP]

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

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

Name	Product identifier	%	GHS-US classification
ATRAZINE (ETHYLAMINE-D5, 98%) (Main constituent)	(CAS No) 163165-75-1	100	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

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exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before	7.1. Precautions for safe handling	
	Additional hazards when processed	
bleaks and at the end of workday.	Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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7.2.	Conditions for safe s	storage, including any incompatibilities	
Storage conditions : Store at room temperature away		: Store at room temperature away fro	om light and moisture.
7.3.	Specific end use(s)		
No add	ditional information availal	ble	
SEC	TION 8: Exposure c	ontrols/personal protection	
8.1.	Control parameters		
ATR	AZINE (ETHYLAMINE-D	5, 98%) (163165-75-1)	
Italy	- Portugal - USA ACGIH	ACGIH TWA (mg/m³)	5.0000000000 mg/m ³ Central Nervous System convulsion. Not classifiable as a human carcinogen
8.2.	Exposure controls		
Persor	nal protective equipment	: Gloves. Protective clothing. Self-co	ontained breathing apparatus. Protective goggles.

Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1.

The properties listed below are for the solvent, the main com	ponent of this mixture.
Physical state	: Solid
Appearance	: Solid.
Molecular mass	: 220.71 g/mol (Labeled)
Colour	: Light-Brown.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 175 °C
Freezing point	: No data available
Boiling point	: 200 °C
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: 7 mg/100 mL in water
Log Pow	: 2.61 5
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	: No data available
9.2. Other information	
No additional information available	

SECTION 10: Stability and reactivity 10.1. Reactivity

No additional information available

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10.2. Chemical stability	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Not available.	
10.5. Incompatible materials	
Strong acids, Strong bases, Strong oxidizing age	nts.
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	· Llawsful if availance d
Acute toxicity	: Harmful if swallowed.
ATRAZINE (ETHYLAMINE-D5, 98%) (163165-	
LD50 oral rat	672 mg/kg
LD50 dermal rabbit	7500 mg/kg
LC50 inhalation rat (mg/l)	5200 mg/m ³ 4 h
ATE (oral)	672.000 mg/kg bodyweight
ATE (dermal)	7500.000 mg/kg bodyweight
ATE (vapours)	5.200 mg/l/4h
ATE (dust,mist)	5.200 mg/l/4h
Skin corrosion/irritation	: Not classified
	Skin - Mammal - Mild skin irritation
Serious eye damage/irritation	: Not classified
	No data available
Respiratory or skin sensitisation	: May cause allergic skin reaction.
	No data available
Germ cell mutagenicity	: Laboratory experiments have shown mutagenic effects.
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	: Not classified
exposure)	No data available
Assistion boyond	: Not classified
Aspiration hazard	
Potential Adverse human health effects and symptoms	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
IARC group	: 3
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.

SECTION 12: Ecological information		
12.1. Toxicity		
5-1)		
0.043 mg/l Desmodesmus subspicatus (green algae) - 72 h		
0.043 mg/l - 72 h, Desmodesmus subspicatus (green algae) -		
1.15 mg/l Pseudokirchneriella subcapitata - 60 h		
2 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h		

12.2.	Persistence and degradability		
ATRAZ	INE (ETHYLAMINE-D5, 98%) (163165-75	5-1)	
Persiste	ence and degradability	Not available.	
17/11/201	5	EN (English)	5/9

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2.3. Bioaccumulative potential			
ATRAZINE (ETHYLAMINE-D5, 98%) (163165-7	ATRAZINE (ETHYLAMINE-D5, 98%) (163165-75-1)		
Log Pow	2.61 5		
Bioaccumulative potential	Tilapia sparrmanii- 4 weeks Bioconcentration factor (BCF): 6.1.		
12.4. Mobility in soil			
ATRAZINE (ETHYLAMINE-D5, 98%) (163165-7	75-1)		
Ecology - soil	Not available.		
12.5. Results of PBT and vPvB assessmen	t		
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 consideration	S		
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.		
SECTION 14: Transport information			
In accordance with ADR / RID / ADNR / IMDG / IC	CAO / IATA		
14.1. UN number			
UN-No.(DOT)	: UN3077		
14.2. UN proper shipping name			
DOT Proper Shipping Name	: Environmentally hazardous substances, solid, n.o.s.		
Department of Transportation (DOT) Hazard Classes	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140		
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)		
DOT O with a la	: G - Identifies PSN requiring a technical name		
DOT Symbols			

ATRAZINE (ETHYLAMINE-D5, 98%) DLM-1149 Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, Mar

DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping
	description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for
	solid materials, special provision B54 applies.
	146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in
	171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is
	designated as environmentally hazardous by the Competent Authority of the country of origin,
	transit or destination.
	335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the
	time the material is loaded or at the time the packaging or transport unit is closed. Each transpo unit must be leakproof when used as bulk packaging.
	A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the
	following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:
	a. Metal: 11A, 11B, 11N, 21A, 21B and 21N
	b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2
	c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
	d. Fiberboard: 11G
	e. Wooden: 11C, 11D and 11F (with inner liners)
	f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).
	B54 - Open-top, sift-proof rail cars are also authorized.
	IB8 - 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, 31HZ and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3,
	13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and
	water-resistant liner.
	N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle. T1 - 1.5 178.274(d)(2) Normal
	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 o
	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 grou
	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.
OT Packaging Exceptions (49 CFR 173.xxx)	: 155
OT Packaging Non Bulk (49 CFR 173.xxx)	: 213
OT Packaging Bulk (49 CFR 173.xxx)	: 240
larine pollutant	: Yes
	¥.
	\checkmark
4.3. Additional information	

14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: DOT: Not dangerous goods.
Overland transport	
Packing group (ADR)	: III
Class (ADR)	: 9 - Miscellaneous dangerous substances and articles
Hazard identification number (Kemler No.)	: 90
Classification code (ADR)	: M7
Danger labels (ADR)	: 9 - Miscellaneous dangerous substances and articles

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Orange plates	90 3077
Tunnel restriction code	: E
Limited quantities (ADR)	5kg
EAC code	: 2Z
Excepted quantities (ADR)	: E1
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.
MFAG-No	: 171
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
Civil Aeronautics Law	: Miscellaneous dangerous substances & articles(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)
14.4. Environmental hazards	
Dangerous for the environment	
Other information	: No supplementary information available.
14.5. Special precautions for user	
Special transport precautions	: DOT: Not dangerous goods.

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		
	ATRAZINE (ETHYLAMINE-D5, 98%) (163165-75-1)	
	SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

15.2. International regulations

CANADA

ATRAZINE (ETHYLAMINE-D5, 98%) (163165-75-1)	
Listed on the Canadian DSL (Domestic Sustances List) inventory.	

15.2.1. National regulations

No additional information available

15.3. US State regulations

ATRAZINE (ETHYLAMINE-D5, 98%)(163165-75-1)	
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 State of California to cause cancer, birth defects, or any other reproductive harm.

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SECTION 16: Other information

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Other information
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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. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Sens. 1	Sensitisation — Skin, category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R22	Harmful if swallowed
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Xn	Harmful

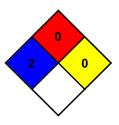
NFPA health hazard

NFPA fire hazard

NFPA reactivity

2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 0 - Materials that will not burn.

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



HMIS III Rating

Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal 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