

Page 1/12

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

1 Identification

· Product identifier

· Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

- · Part number: DRE-Q65003669
- · Application of the substance / the mixture Reference material for laboratory use only
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:

VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA

Tel :+1 (603) 622-7660 Fax : +1 (603) 622-5180

Email : lgcusa@lgcgroup.com Web : lgcstandards.com

• Information department: Product safety department

eMail : sds-request@lgcgroup.com • Emergency telephone number:

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

2 Hazard(s) identification

• Classification of th	ne substance or mixture Flame
Flam. Liq. 2	H225 Highly flammable liquid and vapor.
GHS07	
Eye Irrit. 2A STOT SE 3	H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.
Aquatic Acute 3 Aquatic Chronic 3	H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects.
• Label elements • GHS label elemen The product is clas	ts sified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

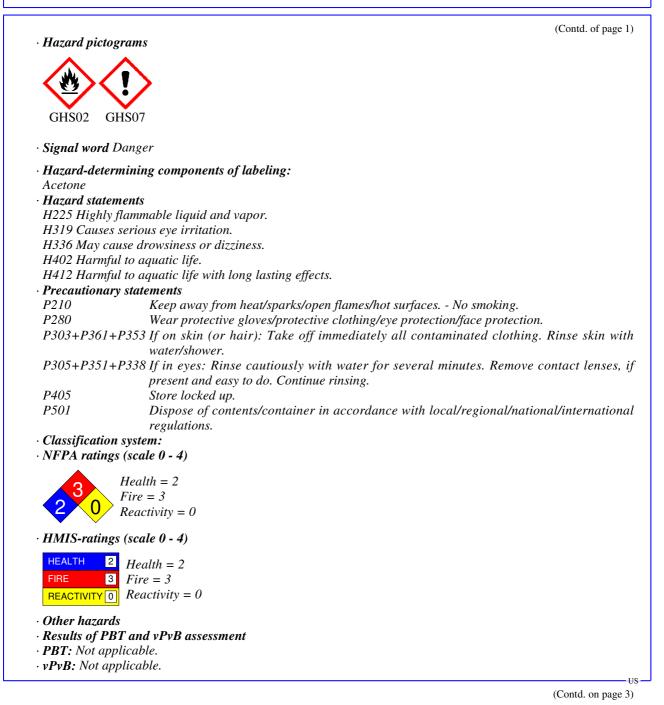


acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone



Page 2/12

acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

(Contd. of page 2)

200000		l' f			in an alian	. 4 ~
5 Comp	osuion	unjor	maiion	on	ingredier	แร

· Chemical characterization: Mixtures

• Description: Also contains substances at levels not considered to be hazardous.

· Dangerous compone	nts:	
CAS: 67-64-1	Acetone	>95%
RTECS: AL 3150000	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2A, H319; STOT SE 3, H336	
	Terbuthylazine	<0.1%
<i>RTECS: XY4550000</i>	 STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302 	
CAS: 834-12-8	ametryn (ISO)	<0.1%
<i>RTECS: XY9100000</i>	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🚸 Acute Tox. 4, H302; Acute Tox. 4, H332	

4 First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Rinse mouth. Do not induce vomiting.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- *Protective equipment:* Wear self-contained respiratory protective device.

6 Accidental release measures

• *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*

(Contd. on page 4)



Page 3/12



acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Page 4/12

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

	(Contd. of page
· Environmental precautions:	
Inform respective authorities in case of seepage into water course or sewage	system.
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
\cdot Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal	l binders, sawdust).
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
· Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
• PAC-1:	
CAS: 67-64-1 Acetone	200 ppn
· PAC-2:	
CAS: 67-64-1 Acetone	3200 <u>ppn</u>
· PAC-3:	
CAS: 67-64-1 Acetone	5700 <u>ppn</u>

· Handling:

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
 Store in cool, dry place in tightly closed receptacles.
 Prevent formation of aerosols.
 Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 12/04/2020

LGC

Reviewed on 12/04/2020

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

(Contd. of page 4)

Page 5/12

8 Exp	osure controls/personal protection
· Addi	tional information about design of technical systems: No further data; see item 7.
	rol parameters
	ponents with limit values that require monitoring at the workplace:
012/01	67-64-1 Acetone
PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m³, 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm BEI
. Inori	edients with biological limit values:
-	67-64-1 Acetone
BEI	50 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)
Keep Imme Wash Avoid • Brea In ca use r • Prote Selec degra The p	ral protective and hygienic measures: away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. hands before breaks and at the end of work. contact with the eyes. contact with the eyes and skin. thing equipment: se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposu espiratory protective device that is independent of circulating air. extion of hands: clove material has to be impermeable and resistant to the product/ the substance/ the preparation. extion of the glove material on consideration of the penetration times, rates of diffusion and the dation protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the ed standard EN374
	Protective gloves rial of gloves Butyl rubber, BR tration time of glove material
	watch time of give material

has to be found out by the manufacturer of the protective gloves and has to be The exact l oreak thi observed.

(Contd. on page 6) US



Safety Data Sheet acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

· Eye protection:

Tightly sealed goggles

Information on basic physical and c	hemical properties
General Information	
Appearance:	7 7
Form:	Liquid
Color: Odor:	Colorless Sweetish
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-94.7 °C (-138.5 °F)
Boiling point/Boiling range:	55.8-56.6 °C (132.4-133.9 °F)
Flash point:	<-18 °C (<-0.4 °F)
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	465 °C (869 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	13 Vol %
Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
Density at 20 °C (68 °F):	0.79 g/cm ³ (6.59255 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/wate	

Page 6/12

(Contd. of page 5)

LGC

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

· Viscosity:

Dynamic at 20 °C (68 °F): Kinematic: • Other information 32 mPas Not determined. No further relevant information available.

10 Stability and reactivity

· Reactivity

- Stable under normal conditions. No further relevant information available.
- Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:
- Formation of toxic gases is possible during heating or in case of fire.
- Possibility of hazardous reactions May form flammable/explosive vapour-air mixture.
- Conditions to avoid Sources of ignition
- Heat.
- · Incompatible materials: Strong oxidizing agents.
- Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	values that	t are relevant for classification:
CAS: 67-6	4-1 Aceton	10
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
CAS: 834-	12-8 ameti	ryn (ISO)
Oral	LD50	508 mg/kg (rat)
Dermal	(LD50)	>3,000 mg/kg (rat)
Inhalative	LC50/4 h	>2.2 mg/l (rat)
· Primary ir	ritant effe	ct:
• on the skir	i: Based or	n available data, the classification criteria are not met.
\cdot on the eye.	: Irritating	effect.

• Sensitization: Based on available data, the classification criteria are not met.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

(Contd. on page 8)

US

Page 7/12

(Contd. of page 6)



acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Page 8/12

(Contd. of page 7)

3

3

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 1912-24-9 Atrazine (ISO)

CAS: 122-34-9 Simazine (ISO)

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

• Aquatic toxicity:

CAS: 834-12-8 ametryn (ISO)

EC50/48 h 34 mg/l (crustacean)

EC50/96h 0.01 mg/l (Algae)

LC50/96 h 8.5 mg/l (fish)

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

- \cdot Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packagings:
- *Recommendation: Dispose in accordance with national regulations.*

(Contd. on page 9)

Safety Data Sheet acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

(Contd. of page 8)

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, ADR, IMDG, IATA	UN1090
DOT	Acetone mixture
ADR	1090 ACETONE mixture
IMDG, IATA	ACETONE mixture
Transport hazard class(es)	
DOT	
FUNDES COD	
Class	3 Flammable liquids
Label	3
ADR, IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group	
DOT, ADR, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F-E,S-D
Stowage Category	В
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml



Page 9/12

acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

· UN "Model Regulation":

UN 1090 ACETONE MIXTURE, 3, II

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- Section 355 (extremely hazardous substances): None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):
- CAS: 1912-24-9 Atrazine (ISO)
- CAS: 7287-19-6 Prometryn
- CAS: 122-34-9 Simazine (ISO) CAS: 834-12-8 ametryn (ISO)
- CAS: 854-12-8 umetryn (150
- · TSCA (Toxic Substances Control Act):CAS: 67-64-1AcetoneCAS: 1912-24-9Atrazine (ISO)CAS: 139-40-2PropazineCAS: 122-34-9Simazine (ISO)
- CAS: 5915-41-3TerbuthylazineACTIVECAS: 1912-26-1TrietazineINACTIVE· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

CAS: 1912-24-9 Atrazine (ISO)

CAS: 139-40-2 Propazine CAS: 122-34-9 Simazine (ISO)

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

CAS: 1912-24-9 Atrazine (ISO)

CAS: 139-40-2 Propazine

CAS: 122-34-9 Simazine (ISO)







(Contd. of page 9)

ACTIVE

ACTIVE ACTIVE

ACTIVE

Page 10/12



Page 11/12

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

	(Contd. of page	e 1
· Carcinogen	c categories	
· EPA (Envir	onmental Protection Agency)	
CAS: 67-64-	1 Acetone	
· TLV (Thres	hold Limit Value established by ACGIH)	
CAS: 67-64-	1 Acetone	A4
CAS: 1912-2	24-9 Atrazine (ISO)	A
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of the	ingredients is listed.	
· Hazard pict	ograms	
	GHS07	
· Signal word	Danger	
· Hazard-dete	rmining components of labeling:	
Acetone		
• Hazard state		
	y flammable liquid and vapor.	
	s serious eye irritation.	
	ause drowsiness or dizziness.	
	ful to aquatic life.	
	ful to aquatic life with long lasting effects.	
	ry statements	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
<i>P303+P361</i>	+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin v water/shower.	vi
P305+P351	+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing.	s,
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.)n
	fety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses (Contd. on page 12)



Page 12/12

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/04/2020

Reviewed on 12/04/2020

Product name: Custom Standard 834-12-8 ametryne 100.0 µg/mL in acetone

(Contd. of page 11)

are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

· Date of preparation / last revision 12/04/2020 / -

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 · Sources Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· Data compared to the previous version altered. All sections have been updated.

US