

# R-(-)-1-Aminoethyl phosphonic acid Safety Data Sheet 8177117 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: R-(-)-1-Aminoethyl phosphonic acid
CAS No	: 60687-36-7
Product code	: 8177-1-17
Formula	: C2H8NO3P
Other means of identification	: MFCD00066502
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safety	data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number	<u>)m</u>
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
	. (000 020 000 (0E Company - Account 10000)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or r	nixture
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation	
Eye Irrit. 2A H319 - Causes serious eye irrita	ation
STOT SE 3 H335 - May cause respiratory in	ritation
Full text of H-phrases: see section 16	
2.0 Label elements	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation
	H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>H335 - May cause respiratory irritation</li> <li>P261 - Avoid breathing dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact</li> <li>lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>

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2.3. Other hazards				
No additional information available	)			
2.4. Unknown acute toxicity (GHS US	)			
Not applicable				
SECTION 3: Composition/informa	tion on ii	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
R-(-)-1-Aminoethyl phosphonic acid (Main constituent)		(CAS No) 60687-36-7	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16			1	
B.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures				
First-aid measures general		ase of accident or if you feel unwell, seek		
		re possible). Move the affected personnel	-	
First-aid measures after inhalation	resp	nove person to fresh air and keep comfort iration. Get medical advice/attention.		
First-aid measures after skin contact		h with plenty of soap and water. Get med		
irst-aid measures after eye contact	pres	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	medical advice/	attention.
First-aid measures after ingestion		NOT induce vomiting. Never give anything th out with water. Get medical advice/atte		unconscious person. Rinse
I.2. Most important symptoms and e				
Symptoms/injuries		most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
Freat symptomatically.         SECTION 5: Firefighting measure         5.1.       Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard	: The	rmal decomposition generates: Carbon ox	kides. Nitrogen o	xides. Phosphorus oxides.
5.3. Advice for firefighters				
Firefighting instructions Protection during firefighting	: Wea	ase of fire: Evacuate area. ar gas tight chemically protective clothing i aratus. For further information refer to sec		
SECTION 6: Accidental release m	easures			
		t and emergency procedures		
5.1. Personal precautions, protective General measures		cuate unnecessary personnel. Ensure ade	auste sir vontik	ation. Do not breathe duct
	. Eva	suate uninecessary personnel. Ensure aut	Square an ventilio	
<b>5.1.1.</b> For non-emergency personnel Emergency procedures	: Only	v qualified personnel equipped with suitab	le protective equ	lipment may intervene.
12 For omorgonou responders				
5.1.2. For emergency responders Protective equipment		not attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
		· ·		
5.2 Environmental precautions				
	orities if pro	duct enters sewers or public waters		
Avoid release to the environment. Notify auth				
6.2. Environmental precautions     Avoid release to the environment. Notify auth     6.3. Methods and material for contain     For containment	ment and			

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Methods for cleaning up		: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.	
Other inforr	mation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4. R	Reference to other sections		
No addition	al information available		
SECTIO	N 7: Handling and storage		
7.1. P	Precautions for safe handling		
Precautions	s for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.	
Hygiene me	easures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. C	Conditions for safe storage, includi	ig any incompatibilities	
Technical n	neasures	: Comply with applicable regulations.	
Storage cor	nditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.	
Incompatible materials		: Refer to Section 10 on Incompatible Materials.	

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Storage area

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

: Store in dry, cool, well-ventilated area.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical ar	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 277 - 278 °C (dec.)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 125.0636 g/mol
Solubility	: No data available
Log Pow	: No data available

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Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
9.2. Other information		
No additional information available		
<b>SECTION 10: Stability and read</b>	tivity	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling a	and storage conditions.	
10.3. Possibility of hazardous reac	tions	
No additional information available		
10.4. Conditions to avoid		
Keep away from heat, sparks and flame.		
10.5. Incompatible materials		
Strong oxidizing agents.		
10.6. Hazardous decomposition pr	oducts	
Under normal conditions of storage and u fire, see Section 5.	use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of	
<b>SECTION 11: Toxicological info</b>	brmation	
11.1. Information on toxicological	effects	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization : Not classified		
<b>O II I I I I</b>		

Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified

Aspiration hazard

: Not classified

SECTION 12: Ecological information		
12.1.	Toxicity	
No additional information available		
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.	Other adverse effects	
No additional information available		

No additional information available

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SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.	

# **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

# SECTION 15: Regulatory information

## 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

R-(-)-1-Aminoethyl phosphonic acid	CAS No 60687-36-7	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

#### CANADA

No additional information available

# EU-Regulations

No additional information available

### National regulations

## R-(-)-1-Aminoethyl phosphonic acid (60687-36-7) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## SECTION 16: Other information

#### Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 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 - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

## SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.