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5-Amino-1-pentanol

Safety Data Sheet 415610A according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/12/2021 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 5-Amino-1-pentanol		
CAS No	: 2508-29-4		
Product code	: 4156-1-0A		
Formula	: C5H13NO		
Other means of identification	: MFCD00008237		
.2. Relevant identified uses of the sub	stance or mixture and uses advis	ed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develop	oment	
I.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	<u>əm</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company	Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or I			
Classification (GHS-US)			
Acute Tox. 4 (Oral)H302 - Harmful if swallorSkin Corr. 1BH314 - Causes severe sEye Dam. 1H318 - Causes serious eSTOT SE 3H335 - May cause respinFull text of H-phrases: see section 16	kin burns and eye damage eye damage		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H302 - Harmful if swallowed H314 - Causes severe skin bur H335 - May cause respiratory i		
Precautionary statements (GHS-US)	P301+P312 - If swallowed: Cal P301+P330+P331 - If swallowed P303+P361+P353 - If on skin (skin with water/shower P304+P340 - If inhaled: Remov P305+P351+P338 - If in eyes: lenses, if present and easy to c P310 - Immediately call a POIS P321 - Specific treatment (see	fter handling oke when using this product a well-ventilated area protective clothing/eye protection/face prof l a POISON CENTER or doctor/ physician ed: rinse mouth. Do NOT induce vomiting or hair): Take off immediately all contamin ve person to fresh air and keep comfortable Rinse cautiously with water for several mir to. Continue rinsing SON CENTER or doctor/ physician	if you feel unwell ated clothing. Rinse e for breathing nutes. Remove contact
	P330 - Rinse mouth P363 - Wash contaminated clo	supplemental first aid instructions on this lithing before reuse	abel)

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- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1.	Substance	
Substand	ce type	: Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
5-Amino-1-pentanol (Main constituent)	(CAS No) 2508-29-4	<= 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335

Full text of H-phrases: see section 16

3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/injuries	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
Symptoms/injuries after inhalation	Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.
4.3. Indication of any immediate medical a	attention and special treatment needed

Treat symptomatically.

l reat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the su	ubstance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.

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6.1.2.	For emergency responders	
Protective	equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid rele	ease to the environment. Notify authors	orities if product enters sewers or public waters.
6.3.	Methods and material for contain	ment and cleaning up
For conta	inment	: Stop leak if safe to do so.
Methods f	for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other info	ormation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No additic	onal information available	
SECTIC	ON 7: Handling and storage	
7.1.		
1.1.	Precautions for safe handling	
	Precautions for safe handling ns 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.
Precautio	Ŭ	ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective
Precautio Hygiene r	ns for safe handling	 ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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.
Precautio Hygiene r 7.2.	ns for safe handling measures	 ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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.
Precautio Hygiene r 7.2.	ns for safe handling neasures Conditions for safe storage, inclu I measures	 ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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.
Precautio Hygiene r 7.2. Technical Storage c	ns for safe handling neasures Conditions for safe storage, inclu I measures	 ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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. Iding any incompatibilities Comply with applicable regulations. Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Solid Appearance : Low melting solid. Color : No data available Odor : No data available Odor threshold : No data available pН : No data available Melting point : 33 - 35 Freezing point : No data available **Boiling point** : 119 - 122 °C (@ 17 mm Hg) Flash point : 66 °C Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosion limits : No data available

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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
Specific gravity / density	: 0.949 g/ml (@ 20 °C)
Molecular mass	: 103.1628 g/mol
Solubility	: No data available
Log Pow	: No data available
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

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

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 products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation ÷ Causes serious eye damage. Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : May cause respiratory irritation. Specific target organ toxicity (repeated : Not classified exposure) Aspiration hazard : Not classified Symptoms/injuries after inhalation Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. **SECTION 12: Ecological information**

12.1. Toxicity

No additional information available

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12.2.	Persistence and degradability
No addit	tional information available
12.3.	Bioaccumulative potential
No addit	tional information available
12.4.	Mobility in soil
No addit	tional information available
12.5.	Other adverse effects
	tional information available
NU auun	

3.1. Waste treatment methods Vaste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Vaste disposal recommendations dditional information	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
	: Recycle the material as far as possible.
ECTION 14: Transport information	
Department of Transportation (DOT)	
n accordance with DOT	
ransport document description	: UN3259 Amines, solid, corrosive, n.o.s., 8, III
IN-No.(DOT)	: UN3259
Proper Shipping Name (DOT)	: Amines, solid, corrosive, n.o.s.
ransport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
lazard labels (DOT)	: 8 - Corrosive
	8
Packing group (DOT)	: III - Minor Danger
OT Packaging Non Bulk (49 CFR 173.xxx)	: 213
OT Packaging Bulk (49 CFR 173.xxx)	: 240
OT Symbols	: G - Identifies PSN requiring a technical name
OOT Special Provisions (49 CFR 172.102)	 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, 31HZ1 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. T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) 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 or 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 group 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 TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
OOT Packaging Exceptions (49 CFR 173.xxx)	: 154
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 25 kg
OCT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
OOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
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DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3259
Proper Shipping Name (IMDG)	: AMINES, SOLID, CORROSIVE, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3259
Proper Shipping Name (IATA)	: Amines, solid, corrosive, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

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:

5-Amino-1-pentanol	CAS No 2508-29-4	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

No additional information available

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:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
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	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
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	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
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)	

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