

SAFETY DATA SHEET

Creation Date 18-Jul-2000

Revision Date 15-Mar-2018

Revision Number 1

1. Identification **Product Name** (+/-)-2-Pentanol B21217

Cat No. :

CAS-No Synonyms 6032-29-7 DL-sec-Amyl alcohol; Methyl propyl carbinol

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Acute Inhalation Toxicity - Vapors Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 3 Category 4 Category 3

Label Elements

Signal Word Warning

Hazard Statements

Flammable liquid and vapor Harmful if inhaled May cause respiratory irritation



Precautionary Statements Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store in a well-ventilated place. Keep container tightly closed Store locked up Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

3. Composition/Information on Ingredients

Component		CAS-No	Weight %		
sec-Amyl alcohol		6032-29-7	> 95		
	4.	First-aid measures			
General Advice	If symptoms	If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ge medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists call a physician.				
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.				
Ingestion	Clean mouth with water and drink afterwards plenty of water.				
Most important symptoms and effects	. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and von				

Notes to Physician Treat symptomatically Fire-fighting measures Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed Suitable Extinguishing Media containers exposed to fire with water spray. **Unsuitable Extinguishing Media** No information available 34 °C / 93.2 °F Flash Point Method -No information available 340 °C / 644 °F **Autoignition Temperature Explosion Limits** Upper 8.0% Lower 1.2% Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available Specific Hazards Arising from the Chemical Flammable. Vapors may travel to source of ignition and flash back. Vapors may form explosive mixture with air. Containers may explode when heated. Vapors may form explosive mixtures with air. **Hazardous Combustion Products** Carbon monoxide (CO) Carbon dioxide (CO₂) **Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. NFPA Health Flammability Instability **Physical hazards** 2 2 0 N/A 6. Accidental release measures **Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. **Environmental Precautions** Should not be released into the environment. Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Up Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. 7. Handling and storage Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on Handling skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges. Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Flammables area. Exposure controls / personal protection

Exposure Guidelines

<u>Legend</u>

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation especially in confined areas. Ensure that eyewash stations and safety showers are close the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Long sleeved clothing.		
Respiratory Protection	No protective equipment is needed under normal use conditions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Characteristic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-50 °C / -58 °F
Boiling Point/Range	118 - 119 °C / 244.4 - 246.2 °F
Flash Point	34 °C / 93.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	8.0%
Lower	1.2%
Vapor Pressure	3 mbar @ 20 °C
Vapor Density	3.0 (Air = 1.0)
Specific Gravity	0.812
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	340 °C / 644 °F
Decomposition Temperature	No information available
Viscosity	4.1 mPa.s @ 20 °C
Molecular Formula	C5 H12 O
Molecular Weight	88.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	No information available.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Incompatible products.
Incompatible Materials	Metals, Oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	No information available.
Hazardous Reactions	No information available.

11. Toxicological information

Acute Toxicity

Vapor LC50 Category 4. ATE = 10 - 20 mg/l. Component Information Category 4. ATE = 10 - 20 mg/l.							
Component morna		LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation				
sec-Amyl alc		2.821 mg/kg (Rabbit)		Not listed		t listed	
Toxicologically Syr Products	ergistic	No information available					
Irritation Irritating to respiratory system							
Sensitization No information available							
Carcinogenicity		The table below ind	The table below indicates whether each agency has listed any ingredient as a carcino				
Component	CAS-No	IARC NTP ACGIH OSHA					
sec-Amyl alcohol	6032-29-7	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects Reproductive Effect Developmental Effect		No information available. No information available.					
Teratogenicity		No information available.					
STOT - single expo STOT - repeated ex							
Aspiration hazard		No information available					
	s,both acute and	d Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomitin					
Symptoms / effects delayed							
	or Information	No information avai	lable				

Ecotoxicity Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Do not empty

Persistence and Degradability	Persistence is unlikely	
Bioaccumulation/ Accumulation No information available.		
Mobility Will likely be mobile in the		environment due to its water solubility.
Component		log Pow
sec-Amyl alco	hol	1.19

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN1105
Proper Shipping Name	PENTANOLS
Hazard Class	3
Packing Group	
TDG	
UN-No	UN1105
Proper Shipping Name	PENTANOLS
Hazard Class	3
Packing Group	
UN-No	UN1105
Proper Shipping Name	PENTANOLS
Hazard Class	3
Packing Group	
IMDG/IMO	
UN-No	UN1105
Proper Shipping Name	PENTANOLS
Hazard Class	3
Packing Group	
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

sec-Amylalcohol X - X 227-907-6 - X X X X X	Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
	sec-Amyl alcohol	Х	-	Х	1777-UN7-6	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used. P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Negulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
sec-Amyl alcohol	Х	Х	Х	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available
16. Other information	
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date Revision Date Print Date Revision Summary	18-Jul-2000 15-Mar-2018 15-Mar-2018 SDS authoring systems update, replaces ChemGes SDS No. 6032-29-7/2.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS