



Noviewer	011 02/01/2001
1 Identification	
Product identifier Product name: Pentyl acetate	
Stock number: 36285, L10852	
CAS Number: 628-63-7	
EC number: 211-047-3	
Index number: 607-130-00-2	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
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@alta.com www.alfa.com	
Information Department: Health, Safety and Environmental Department 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) 928-07	39.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS02 Flame	
Flam. Liq. 3 H226 Flammable liquid and vapour. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS02	
Signal word Warning	
Hāzard statements H226 Flammable liquid and vapour.	
Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P240 Ground/bond container and receiving equipment. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P403+P235 Store in a weil-ventilated place. Keep cool.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification B2 - Flammable liquid	
Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System)	
PRE B Flammability = 3	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
628-63-7 Pentyl acetate Identification number(s):	
EC number: 211-047-3 Index number: 607-130-00-2	
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice.	Contd. on page 2)
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(Contd. of page 1) After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. 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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. **Prevention of secondary hazards:** Keep away from ignition sources. **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. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Prevent formation of aerosols. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: No information known. Further information about storage conditions: Keep container tightly sealed. in cool. dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Components with limit values that require monitoring at the workplace: Amyl acetate ACGIH TLV 100 Germany TWA Ireland TWA Netherlands TWA 50 100; 150-STEL 100-STEL United Kingdom TWA 100; 150-STEL 100 **USA PEL** Control parameters Components with limit values that require monitoring at the workplace: 628-63-7 Pentyl acetate (100.0%) PEL (USA) Long-term value: 525 mg/m3, 100 ppm Long-term value: 525 mg/m³, 100 ppm Short-term value: 532 mg/m³, 100 ppm Long-term value: 266 mg/m³, 50 ppm REL (USA) TLV (USA) Short-term value: 100 ppm Long-term value: 50 ppm EL (Canada) EV (Canada) Short-term value: 100 ppm Long-term value: 50 ppm Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. (Contd. on page 3)

Product name: Pentyl acetate		
Protection of hands: Impervious gloves Check protective gloves prior to each us The selection of suitable gloves not only Eye protection: Safety glasses Body protection: Protective work cloth	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	(Contd. of page 2
	5	
9 Physical and chemical properties Information on basic physical and ch General Information Appearance:		
Form: Color: Odor:	Liquid Colorless Fruit-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	<-100 °C (<-148 °F) 140-150 °C (284-302 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	24 °C (75 °F) Not determined. 360 °C (680 °F) Not determined Not determined.	
Danger of explosion: Explosion limits:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.1 Vol % 7.5 Vol % 5 hPa (4 mm Hg) 0.876 g/cm³ (7.31 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water) Viscosity:	2 g/l : Not determined.	
dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.	
Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Bases Oxidizing agents No information known.	to be avoided: Decomposition will not occur if used and stored according to specifications. adangerous reactions known t information available.	
Hazardous decomposition products:		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for of Oral LD50 6500 mg/kg (rat)	classification:	
Skin irritation or corrosion: Irritant to skin and mucous membranes. Repeated exposure may cause skin dry Eye irritation or corrosion: Irritating ef Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	fect. own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Subacute to chronic toxicity: The main effects of pentyl acetate are n	 repeated exposure: No effects known. single exposure: No effects known. ts known. arcosis and irritation of the skin, eyes and respiratory tract. May be anesthetic at high concentrations. 	
12 Ecological information Toxicity Aquatic toxicity: No further relevant inf	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes:	relevant information available.	
General notes: Do not allow material to be released to t Do not allow undiluted product or large of Avoid transfer into the environment.	he environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
		(Contd. on page 4

	Reviewed on 02/07/2007
Product name: Pentyl acetate	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available	(Contd. of page 3) e.
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to Uncleaned packagings: Recommendation: Disposal must be made according to officia	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN1104
UN proper shipping name DOT	Amyl acetates AMYL ACETATES
IMDG, IATA Transport hazard class(es) DOT	AMYLACETATES
Class	3 Flammable liquids.
Label Class Label IMDG, IATA	3 (F1) Flammable liquids 3
Class Label	3 Flammable liquids. 3
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL73/78 a	nd the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1104, Amyl acetates, 3, III
15 Regulatory information Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in ac Hazard pictograms GHS02	ecific for the substance or mixture cordance with 29 CFR 1910 (OSHA HCS)
National regulations ' All components of this product are listed in the U.S. Environmer SARA Section 313 (specific toxic chemical listings) Substar California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not list Prop 65 - Developmental toxicity, male Substance is not liste Information about limitation of use: For use only by technica. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the F	ye protection/face protection. ment. contaminated clothing. Rinse skin with water/shower. e with local/regional/national/international regulations. ntal Protection Agency Toxic Substances Control Act Chemical substance Inventory. nce is not listed. ot listed. s
16 Other information Employers should use this information only as a supplement to information to ensure proper use and protect the health and saf conformance with this Material Safety Data Sheet, or in combine	other information gathered by them, and should make independent judgement of suitability of this fety of employees. This information is furnished without warranty, and any use of the product not in ation with any other product or process, is the responsibility of the user. (Contd. on page 5)

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(Contd. of page 4)

USA

 Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -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 ElNECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent UD50: Lethal dose, 50 percent PVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)

 WTH: National Toxicology Program (USA)

 MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)