

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 4-n-Pentylphenyl 4-n-pentylbenzoate Stock number: H55385 **CAS Number:** 74305-48-9 EC number: 277-812-9 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. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech @alfa.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) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known. I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 74305-48-9 4-n-Pentylphenyl 4-n-pentylbenzoate Identification number(s): EC number: 277-812-9 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 immediate medical advice. 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 dióxide 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 Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required.

Product name: 4-n-Pentylphenyl 4-n-pentylbenzoate

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. Information about protection against explosions and fires: No information known.

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: Store away from oxidizing agents.

Further information about storage none common storage facility Keep container tightly sealed. Store 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. Control parameters

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data

Exposure controls

Personal protective equipment

General protective and hygienic measures

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.

Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands:

Impervious gloves

Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

9 Physical and chemical properties

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Information on basic physical and chemical properties			
General Information			
Appearance:			
Form:	Solid		
Color:	White to off-white		
Odor:	Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range:	33-36 °C (91-97 °F)		
Boiling point/Boiling range:	Not determined		
Sublimation temperature / start:	Not determined		
Flammability (solid, gaseous)	Not determined.		
Ignition temperature:	Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion:	Not determined.		
Explosion limits:			
Lower:	Not determined		
Upper:	Not determined		
Vapor pressure:	Not applicable.		
Density:	Not determined		
Relative density	Not determined.		
Vapor density	Not applicable.		
Evaporation rate	Not applicable.		
Solubility in / Miscibility with	· · · FF · · · · ·		
Water:	Not determined		
Partition coefficient (n-octanol/water)			
Viscosity:			
dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
earst information			

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.

Conditions to avoid No further relevant information available.

(Contd. of page 1)

Product name: 4-n-Pentry(pheny) 4-n-pentry(benzoate (Const. of page 7) Incompatible materials: Coloring agents (Const. of page 7) Hardhous decompatibles products: Coloring monocole and carbon dioxide (Const. of page 7) Information on backlashgeta lefters (Const. of page 7) Longenetics on consciolations (Const. of page 7) Service decompatibles products: Coloring monocole and carbon dioxide (Const. of page 7) Service decompatibles products: Coloring monocole and carbon dioxide (Const. of page 7) Service decompatibles products: Coloring monocole and carbon dioxide (Const. of page 7) Service decompatibles products: Coloring monocole and carbon dioxide (Const. of page 7) Service decompatibles products: Coloring and the page 200 monocole and chronic toxicity of the substance in and fully monocol. (Const. of page 7) Additional Coloring and the monocole and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and the monocole and chronic toxicity of the substance in and the monocole and chronic to			Reviewed 0/1 00/07/2013
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Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

Product name: 4-n-Pentylphenyl 4-n-pentylbenzoate

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USA

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - 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) DOT: US Department of Transportation ENIECS: 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 USD: 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) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)