



1 Identification
Product identifier
Product name: 4-n-Propylphenol
Stock number: A15342 CAS Number:
645-56-7 EC number:
211-446-2
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@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)
GHS05 Corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
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
GHS05 GHS07
Signal word Danger
Hazard statements H302 Harmful if swallowed.
H314 Causes severe skin burns and eve damage.
Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P358 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P351 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse.
P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rešt in a position comfortable for breathing. P310 Immediately call a POISON CENTER/doctor
P363 Wash contaminated clothing before reuse. P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D2B - Toxic material causing other toxic effects
E - Corrosive material
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 3
FRE Flammability = 1 REACTIVITY Physical Hazard = 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: 645-56-7 4-n-Propylphenol
645-56-7 4-n-Propylphenol Identification number(s): EC number: 211-446-2

Product name: 4-n-Propylphenol

	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures General information Immediately remove any clothing soiled by the product.	
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	
Causes severe skin burns. Harmful if swallowed.	
Causes serious eye damage. 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	
Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
Prevention of secondary hazards: No special measures required. 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 conditions:	
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 The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.	
Remove all solled and contaminated clothing immediately.	
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. 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 multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be p determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as N	erformed to IOSH (USA) or
CEN (EU). Protection of hands:	
Impervious aloves	
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. Material of gloves Butyl rubber, BR Penetration time of glove material (in minutes) 480	
Penetration time of glove material (in minutes) 480 Glove thickness 0.3 mm	(Contd. on page 2)
L	(Contd. on page 3)

Eye protection: Tightly sealed goggles

(Contd. of page 2)

Tightly sealed goggles Full face protection Body protection: Protective work clothing.			
9 Physical and chemical properties			
Information on basic physical and che General Information Appearance: Form: Odor:			
Odor threshold:	Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	20-22 °C (68-72 °F) 232 °C (450 °F) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	106 °C (223 °F) Not determined Not determined Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not determined 0.983 g/cm ³ (8.203 lbs/gal) Not determined. Not determined.		
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. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide			
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if swallowed. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification:			
Oral LD50 500 mg/kg (rat) Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.			
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.			

Product name: 4-n-Propylphenol

	(Contd. of page 3)		
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local or national regulations to ensure prop	er disposal.		
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
14 Transport information			
UN-Number DOT, IMDG, IATA	UN3145		
UN proper shipping name			
DOT IMDG, IATA	Alkylphenols, liquid, n.o.s. ALKYLPHENOLS, LIQUID, N.O.S.		
Transport hazard class(es)			
DOT			
Class Label	8 Corrosive substances. 8		
Class Label	8 (C3) Corrosive substances		
IMDG, IATA	0		
▼ Class	8 Corrosive substances.		
Label	8		
Packing group DOT, IMDG, IATA	III		
Environmental hazards:	Not applicable.		
Special precautions for user EMS Number:	Warning: Corrosive substances F-A,S-B		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co Transport/Additional information:	ode Not applicable.		
DOT			
Marine Pollutant (DOT): UN "Model Regulation":	No UN3145, Alkylphenols, liquid, n.o.s. (4-n-Propylphenol), 8, III		
15 Regulatory information	substance or mixture		
Safety, health and environmental regulations/legislation specific for the GHS label elements The product is classified and labeled in accordance with Hazard pictograms	h 29 CFR 1910 (OSHA HCS)		
GHS05 GHS07			
Signal word Danger Hazard statements			
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P405 Store locked up. P501 Dispose of contents/container in accordance with local/rec	nional/national/international regulations		
National regulations	-		
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed.			
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed.			
Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed.			
Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals.			
Other regulations limitations and prohibitive regulations			
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.			
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) S	Substance is not listed.		
Chemical safety assessment: A Chemical Safety Assessment has not beer	n carried out.		
	(Contd. on page 5)		

Product name: 4-n-Propylphenol

(Contd. of page 4)

USA

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 11/03/2016 / - Abbreviations and accoryms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDE: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ENECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identication System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent LDSO: Lethal dose, 50 percent VPW: 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: Internation Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Skin Corr. 18: Skin corrosion/irritation, Hazard Category 18 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1