Hazardous according to criteria of Australian Safety and Compensation Council	
1 Identification Product identifier Trade name <u>1-Octanol</u> Stock number: A15977 CAS Number: 111-87-5 EC number:	
EC number: 203-917-6 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 Australia Pty Ltd 5 Caribbean Drive, Scoresby VICTORIA 3179, Australia Office Tel: 1300 735 292 auinfo@thermofisher.com www.alfa.com Informing department: Product safety department.	
Emergency telephone number: +61 2801 44558 (Carechem 24)	
2 Hazard Identification Classification of the substance or mixture Skin Irrit, 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation. H227 Combustible liquid.	
Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant	
R36/38: Irritating to eyes and skin. Information concerning particular hazards for human and environment: Not applicable Other hazards that do not result in classification No information known.	
Label elements GHS label elements The substance is classified and labelled according to the Globally Harmonized System (GHS). Hazard pictograms	
GHS07	
Signal word Warning Hazard statements H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362 Take off contaminated clothing. P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Information pertaining to particular dangers for man and environment	
Safety phrases: 23 Do not breathe fumes. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37 Wear suitable gloves. 60 This material and its container must be disposed of as hazardous waste. Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable. 3 Composition and information on ingredients	
Chemical characterization: Substances CAS# Designation: 111-87-5 1-Octanol Concentration: ≤100% Identification number(s): EC number: 203-917-6	
 4 First Aid Measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. After skin contact Instantly 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 doctor. After swallowing Seek medical treatment. (Contd. on page 1997)	page 2) AU

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Trade name <i>1-Octanol</i>	
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Most important symptoms and effects, both acute and delayed	
Causes skin irritation. Causes serious eye irritation.	
Indication of any immediate medical attention and special treatment need	ed No further relevant information available.
5 Fire Fighting Measures	
Extinguishing media	
Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight Special hazards arising from the substance or mixture	arger fires with water jet or alcohol-resistant foam.
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 breathing apparatus.	
Wear full protective suit.	
6 Applied release massures	
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	water bodies
Environmental precautions: Do not allow product to reach sewage system or Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal bin Ensure adequate ventilation.	uers, sawdust).
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 information on disposal.	
· · · · · · · · · · · · · · · · · · ·	
7 Handling and storage	
Precautions for safe handling Keep containers tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.	
Information about protection against explosions and fires: Keep ignition so	purces away - Do not smoke.
Conditions for safe storage, including any incompatibilities	
Storage Requirements to be met by storerooms and containers: No special requirements	nents.
Information about storage in one common storage facility: Do not store together with acids.	
Store away from oxidising agents.	
Store awaý from acid chlorides. Store away from acid anbydrides	
Store away from acid anhydrides. 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 and 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 critical values that require monitoring at the workplace:	
The product does not contain any relevant quantities of materials with critical va	alues 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 should be adhered to in handling the chemi Keep away from foodstuffs, beverages and food.	Cars.
Instantly remove any soiled and impregnated garments	
Wash hands during breaks and at the end of the work. Do not inhale dust / smoke / mist.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use breathing protection with high concentrations. Recommended filter device for short term use:	
Use a respirator with organic vapor cartidges as a backup to engineering control	ols. Risk assessment should be performed to determine if air-purifying
respirators are appropiate. Only use equipment tested and approved under ap Protection of hands:	propriate government standards such as NIOSH (USA) or CEN (EU).
Check protective gloves prior to each use for their proper condition.	les an further marks of quality and varias from manufacturer to manufacturer
The selection of the suitable gloves does not only depend on the material, but a Material of gloves Nitrile rubber, NBR	
Penetration time of glove material (in minutes) 30 Glove thickness 0.11 mm	
Eye protection:	
Safety glasses Face protection	
Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties	
General Information Appearance:	
Form: Liquid	
Colour: Colourless Odour: Sweetish	
Odour threshold: Not determined.	
pH-value: Not determined.	
Change in condition Melting point/Melting range: -16 °C	
Boiling point/Boiling range: 193-195 °C	
	(Contd. on page 3)

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	(Contd. of page
Sublimation temperature / start: Flash point:	Not determined 81 °C
Inflammability (solid, gaseous)	Not determined. 270 °C
Decomposition temperature: Self-inflammability:	Not determined
Danger of explosion:	Not determined. Not determined.
Critical values for explosion: Lower:	0.2 Vol %
Upper: Steam pressure at 20 °C:	30.3 Vol % 0.032 hPa
Density at 20 °C	0.835 g/cm ³ Not determined.
Relative density Vapour density	Not determined.
Evaporation rate Solubility in / Miscibility with	Not determined.
Water: Partition coefficient (n-octanol/water	Not miscible or difficult to mix •): Not determined.
Viscosity: dynamic:	Not determined.
kínematic: Other information	Not determined. No further relevant information available.
10 Stability and reactivity Reactivity No information known.	
Chemical stability Stable under recon	imended storage conditions.
Possibility of hazardous reactions R	to be avoided. No decomposition if used and stored according to specifications. eacts with strong oxidising agents
Conditions to avoid No further relevant Incompatible materials:	it information available.
Acids Oxidising agents Acid chlorides	
Acid chlorides Acid anhydrides	
	Carbon monoxide and carbon dioxide
11 Toxicological information	
Information on toxicological effects Acute toxicity: The Registry of Toxic E	Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.
LD/LC50 values that are relevant for	
Oral LD50 18240 mg/kg (rat) Skin irritation or corrosion: Causes s	skin irritation.
Eye irritation or corrosion: Causes so Sensitization: No sensitizing effect knows the sensitization of the sensit	erious eve irritation.
Germ cell mutagenicity: The Registry	of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.
Reproductive toxicity: The Registry o	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. f Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.
Specific target organ system toxicity	 repeated exposure: No effects known. single exposure: No effects known.
Aspiration hazard: No effects known. Subacute to chronic toxicity: The Re	gistry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
12 Ecological information	
Toxicity Aquatic toxicity: No further relevant in	formation available.
Persistence and degradability No fur Bioaccumulative potential No further	ther relevant information available. relevant information available.
Additional ecological information:	irmation available.
General notes:	list); slightly hazardous for water.
Do not allow undiluted product or large Avoid transfer into the environment.	list): slightly hazardous for water. quantities to reach ground water, water course or sewage system.
Results of PBT and vPvB assessmer PBT: Not applicable.	ıt
vPvB: Not applicable. Other adverse effects No further relev	vant information available
13 Disposal considerations Waste treatment methods	
Recommendation Hand over to disposers of hazardous w	
Must be specially treated under adhere	ence to official regulations.
Consult state, local or national regulation Uncleaned packagings: Recommendation: Disposal must be results of the state	
	nade according to official regulations.
14 Transport information UN-Number	
ADG, ADN, IMDG, IATA	Not applicable
UN proper shipping name ADG, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
ADG, ADN, IMDG, IATA Class	Not applicable
Packing group ADG, IMDG, IATA	
ADG, IMDG, IATA Environmental hazards:	Not applicable Not applicable.
	(Contd. on page.

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	(Contd. of pag
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of M/ Code	ARPOL73/78 and the IBC Not applicable.
UN "Model Regulation":	
Regulatory information	
Australian Inventory of Chemical Substances Standard for the Uniform Scheduling of Drug	s/legislation specific for the substance or mixture s Substance is listed. gs and Poisons Substance is not listed. d and labelled according to the Globally Harmonized System (GHS).
GHS07	
P280 Wear protective gloves/prote P264 Wash thoroughly after handli P305+P351+P338 IF IN EYES: Rinse cautiously P362 Take off contaminated clothi P321 Specific treatment (see on th P332+P313 If skin irritation occurs: Get n P337+P313 If eye irritation persists: Get n P403+P235 Store in a well-ventilated play P501 Dispose of contents/containe National regulations Information about limitation of use: Employment restrictions concerning young pers For use only by technically qualified individuals. Class Share in % NK NK 100.0	y with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ng. is label). nedical advice/attention. ce. Keep cool. er in accordance with local/regional/national/international regulations.
Water hazard class: Water hazard class 1 (Ass Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc Chemical safety assessment: A Chemical Saf	sessment by list): slightly hazardous for water. e regulations cording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. fety Assessment has not been carried out.
Other information Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Safety Data Sheet,	a supplement to other information gathered by them, and should make independent judgement of suitability of ct the health and safety of employees. This information is furnished without warranty, and any use of the prod , or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing De	epartment gereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	enists (USA)