SDS 1388 tert-Amyl Alcohol

Date of Issue/re-issue: 13/12/2018

Expiry: 01/01/2024

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Nam	ompany Name			ECP Limited					
Address:		39 W	oodside Ave,	Northcote, Au	ckland , New Zealand				
Emergency Tel: 0800 243 622 or 0800 CHE M CA LL			Tel +64 9 480 4386			FAX +64 9 480 4385			
Product	tert-Amyl Ald	cohol				е	1388		
CAS#	HSNO#	UN #	DG Class/es	Packing group #		Tracking?	Handlers Certificate?		
75-85-4	HSR004987	1105	3	II		No	No		
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Recommended use: Laboratory Investigations

2. Hazards identification

2.1 GHS Classification
Flammable Liquids (Category B)
Acute toxicity, Oral (Category D)
Acute toxicity, Inhalation (Category D)
Acute toxicity, Dermal (Category D)
Ecotoxic to terrestrial vertebrates (Category C)
2.2 GHS Label elements, including precautionary statements



Signal word Danger

Hazard statement(s)

Pictogram

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H433 Harmful to terrestrial vertebrates.

Precautionary statement(s)

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal
P501 Dispose of contents/container to an approved waste disposal plant.
2.3 Other hazards
Lachrymator.

3. Composition/information on ingredients

3.1 Substances
Synonyms:
2-Methyl-2-butanol
tert-Pentyl alcohol
Formula: C₅H₁₂O
Molecular weight: 88.15 g/mol

Component		Concentration			
tert-Pentanol					
CAS No.	75-85-4	<=100%			

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution. If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged or repeated exposure can cause: nausea, dizziness, headache.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed No data available

5. Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters Occupational Exposure Limits Contains no substances with occupational exposure limit values. 8.2 Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards. Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm

Break through time: 480 min

Body Protection

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Appearance Form: clear, liquid Colour: colourless b) Odour No data available c) Odour Threshold No data available d) pH 6 at 118 g/l at 20 °C e) Melting point/freezing point Melting point/range: -12 °C - lit. f) Initial boiling point and boiling range 102 °C - lit. g) Flash point 20 °C - closed cup h) Evaporation rate No data available i) Flammability (solid, gas) No data available j) Upper/lower flammability or explosive limits Upper explosion limit: 9 %(V) Lower explosion limit: 1.2 %(V) k) Vapour pressure 16 hPa at 20 °C I) Vapour density 3.04 - (Air = 1.0)m) Relative density 0.805 g/cm3 at 25 °C n) Water solubility No data available o) Partition coefficient: n-octanol/water log Pow: 0.77 p) Auto-ignition temperature No data available q) Decomposition temperature No data available r) Viscosity No data available

10. Stability and reactivity

10.1 Reactivity
No data available
10.2 Chemical stability
No data available
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heat, flames and sparks.
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
Other decomposition products
No data available

11. Toxicological information

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 1,000 mg/kg Remarks: Behavioural: Ataxia. Inhalation: No data available Skin corrosion/irritation Skin - Rabbit - No skin irritation Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity No data available Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Potential health effects Inhalation Harmful if inhaled. Causes respiratory tract irritation. Ingestion Harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Signs and Symptoms of Exposure Prolonged or repeated exposure can cause: nausea, dizziness, headache. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Additional Information

RTECS: SC0175000

12. Ecological information

12.1 Toxicity Toxicity to fish LCO - Leuciscus idus melanotus - 1,620 mg/l - 48 h LC50 - Leuciscus idus (Golden orfe) - 2,430 mg/l - 48 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 540 mg/l - 48 h Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 500 mg/l - 72 h 12.2 Persistence and degradability Biodegradability 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment No data available 12.6 Other adverse effects No data available

13. Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations			
14.1	UN Number	1105	1105	1105			
14.2	UN Proper Shipping name	PENTANOLS	PENTANOLS	Pentanols			
14.3	Transport Hazard Class	3	3	3			
14.4	Packaging group	11	11	П			
14.5	Environmental Hazards	No	No	No			
14.6	Special precautions for user	No data available.					

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information

HSNO Approval Code: HSR004987

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006 Tracking Required: not required Approved Handler Cert.: not required

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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