TERT-AMYL ALCOHOL AR MSDS

CAS-No.: 75-85-4 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
	:
EC Index-No.	: 603-007-00-2
EC-No.	: 200-908-9
CAS-No.	: 75-85-4
Product code	: 01377
Chemical structure	ОН
	H ₃ C CH ₃
	CHa

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids,H225Category 2Acute toxicity (inhal.),H332Category 4Skin corrosion/irritation,H315Category 2Specific target organH335toxicity — Singleexposure, Category 3,Respiratory tract irritation

Full text of hazard classes and H-statements : see section 16

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] F; R11 Xn; R20 Xi; R37/38 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 Signal word (CLP) : Danger Hazard statements (CLP) : H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. Precautionary statements (CLP) : P210 - Keep away from heat, open flames. No smoking. P261 - Avoid breathing vapours, dust, fume, gas.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substances	
Name		: tert-AMYL ALCOHOL AR
CAS-No		: 75-85-4
EC-No.		: 200-908-9
EC Index	x-No.	: 603-007-00-2

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures	
4.1. Description of first aid measure	e
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Wash with plenty of water/ Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.4 Estimatic hina modio	
5.1. Extinguishing media	· Orden dimide Develop Franz Water serve
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting SECTION 6: Accidental release measure	protection.
SECTION 6: Accidental release measure	protection.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv	protection. s e equipment and emergency procedures
SECTION 6: Accidental release measure	protection.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv	protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv General measures	protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv General measures 6.1.1. For non-emergency personnel Emergency procedures	protection.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required.
SECTION 6: Accidental release measure 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required.
SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.
SECTION 6: Accidental release measures 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment.	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.
 SECTION 6: Accidental release measure 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain 	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.
 SECTION 6: Accidental release measure 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.
SECTION 6: Accidental release measures 6.1. Personal precautions, protectiv General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.
 SECTION 6: Accidental release measures 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.
 SECTION 6: Accidental release measures 6.1. Personal precautions, protective General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available 	 protection. s e equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautions for safe handling	 Avoid contact with skin and eyes. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapours. 	
Hygiene measures	 Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 	
7.2. Conditions for safe storage	, including any incompatibilities	
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.	
Storage conditions	: Keep in fireproof place. Keep container tightly closed.	
Incompatible materials	: Heat sources.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/personal protection		

8.1. Control parameters

-

No additional information available

8.2. Exposure controls		
Hand protection	: Protective gloves	
Eye protection	: Chemical goggles or safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.	
SECTION 9: Physical and chemical prop	perties	
9.1. Information on basic physical a	nd chemical properties	
Physical state	: Liquid	
Colour	: Clear Colorless.	
Odour	: camphor odor.	
Odour threshold	: No data available	
рН	: 6 at 118 g/l at 20 °C	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: -12 °C	
Freezing point	: No data available	
Boiling point	: 102 °C	
Flash point	: 20 °C	
Auto-ignition temperature	: 437 °C	
Decomposition temperature	: No data available	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)	with its amendment Regulation (EU) 2015/830	
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour.	
Vapour pressure	: 16 hPa	
Relative vapour density at 20 °C	: 3	
Relative density	: No data available	
Density	: 0.81 g/cm³	
Relative gas density	: 3.04	
Solubility	: No data available	
Log Pow	: 0.77	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: 0.012 - 0.09 vol %	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Open flame. Heat. Sparks.		
10.5. Incompatible materials		
No additional information available		

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information		
11.1.	Information on toxicological effe	ects
Acute to:	xicity	: Inhalation: Harmful if inhaled.
Skin cori	rosion/irritation	: Causes skin irritation.
		pH: 6 at 118 g/l at 20 °C
Serious	eye damage/irritation	: Not classified
		pH: 6 at 118 g/l at 20 °C

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
C .	
STOT reported evenesure	: Not classified
STOT-repeated exposure	. Not classified
Aspiration hazard	: Not classified

SECTI	FION 12: Ecological information		
12.1.	Toxicity		
No add	dditional information available		

12.2. Persistence and degradability No additional information available

12.3.	Bioaccumulative potential	
tert-A	MYL ALCOHOL AR (75-85-4)	
Log P	Pow	0.77

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Handle empty containers with care because residual vapours are flammable.

In accordance with ADR / RID / IMDG / IATA / ADN

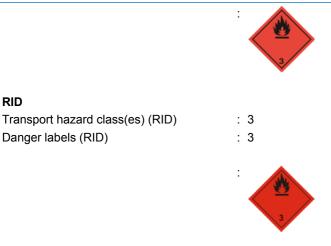
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.1. UN number		
UN-No. (ADR)	: 1105	
UN-No. (IMDG)	: 1105	
UN-No. (IATA)	: 1105	
UN-No. (ADN)	: 1105	
UN-No. (RID)	: 1105	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: PENTANOLS	
Proper Shipping Name (IMDG)	: PENTANOLS	
Proper Shipping Name (IATA)	: Pentanols	
Proper Shipping Name (ADN)	: PENTANOLS	
Proper Shipping Name (RID)	: PENTANOLS	
Transport document description (ADR)	: UN 1105 PENTANOLS, 3, II, (D/E)	
Transport document description (IMDG)	: UN 1105 PENTANOLS, 3, II	
Transport document description (IATA)	: UN 1105 Pentanols, 3, II	
Transport document description (ADN)	: UN 1105 PENTANOLS, 3, II	
Transport document description (RID)	: UN 1105 PENTANOLS, 3, II	
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR)	: 3	
Danger labels (ADR)	: 3	
IMDG		
Transport hazard class(es) (IMDG)	: 3	
Danger labels (IMDG)	: 3	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: 3	
Hazard labels (IATA)	: 3	
ADN		
Transport hazard class(es) (ADN)	: 3	
Danger labels (ADN)	: 3	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: 11

14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	33 1105
Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
www.Labogens.com	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

а	according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830				
	Packing instructions (IMDG)	: P001			
	IBC packing instructions (IMDG)	: IBC02			
	Tank instructions (IMDG)	: T4			
	Tank special provisions (IMDG)	: TP1, TP29			
	EmS-No. (Fire)	: F-E			
	EmS-No. (Spillage)	: S-D			
	Stowage category (IMDG)	: B			
	Properties and observations (IMDG)	: Colourless liquids with a strong odour. Immiscible with water. tertiary-AMYL ALCOHOL: flashpoint 19°C to 21°C c.c.			
	MFAG-No	: 129			
	- Air transport				
	-	: E2			
		: Y341			
	PCA limited quantity max net quantity (IATA)	: 1L			
	PCA packing instructions (IATA)	: 353			
	PCA max net quantity (IATA)	: 5L			
	CAO packing instructions (IATA)	: 364			
	CAO max net quantity (IATA)	: 60L			
	Special provisions (IATA)	: A3			
	ERG code (IATA)	: 3L			
	- Inland waterway transport				
		: F1			
		: 1L			
		: E2			
	,	: PP, EX, A			
		: VE01			
	Number of blue cones/lights (ADN)	: 1			
	- Rail transport				
		: F1			
		: 1L			
		: E2			
	,	: P001, IBC02, R001			
		: MP19			
		: T4			
	instructions (RID)				
	Portable tank and bulk container special provisions (RID)	: TP1, TP29			
	Tank codes for RID tanks (RID)	: LGBF			
	Transport category (RID)	: 2			
	Colis express (express parcels) (RID)	: CE7			
	Hazard identification number (RID)	: 33			

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

tert-AMYL ALCOHOL AR is not on the REACH Candidate List

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

tert-AMYL ALCOHOL AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	The substance is not listed
Denmark		
Class for fire hazard	:	Class I-1
Store unit	:	1 liter
Classification remarks	:	F <flam. 2="" liq.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>
Recommendations Danish Regulation		Young people below the age of 18 years are not allowed to use the product
	SZW-lijst van mutagene stoffen NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding NIET-limitatieve lijst van voor de voortplanting giftige stoffen – /ruchtbaarheid NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling Denmark Class for fire hazard Store unit Classification remarks	SZW-lijst van mutagene stoffen : NIET-limitatieve lijst van voor de : voortplanting giftige stoffen – Borstvoeding NIET-limitatieve lijst van voor de : voortplanting giftige stoffen – /ruchtbaarheid NIET-limitatieve lijst van voor de : voortplanting giftige stoffen – Ontwikkeling Class for fire hazard : Store unit : Classification remarks :

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Flam. Liq. 2	Flammable liquids, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H225	Highly flammable liquid and vapour.		
H315	Causes skin irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
R11	Highly flammable		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

R20	Harmful by inhalation
R37/38	Irritating to respiratory system and skin
F	Highly flammable
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product