CAS No: 107-18-6 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
Trade name	: ALLYL ALCOHOL FOR SYNTHESIS
EC index no	: 603-015-00-6
EC no	: 203-470-7
CAS No	: 107-18-6
Product code	: 00875

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 931677775, +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

Classification of the substance or mixture 2.1.

Classification according	to Regulation (EC) No. 1272/2008 [CLP]	
Flammable liquids,	H225	
Category 2	1201	
Acute toxicity (oral), Category 3	H301	
Acute toxicity (dermal),	H311	
Category 3 Acute toxicity (inhal.),	H331	
Category 3		
Skin corrosion/irritation,	H315	
Category 2		
Serious eye damage/eye irritation, Category 2	H319	
Specific target organ	H335	
toxicity — Single		
exposure, Category 3, Respiratory tract irritation		
Hazardous to the aquatic environment — Acute		
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Safety Data Sheet

Hazard, Category 1

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

T; R23/24/25 Xi; R36/37/38 N; R50 R10 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) N	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS06 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H400 - Very toxic to aquatic life
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P261 - Avoid breathing vapours, dust, fume, gas P273 - Avoid release to the environment P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P310 - IF SWALLOWED: Immediately call a doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: ALLYL ALCOHOL FOR SYNTHESIS
CAS N	0	: 107-18-6
EC no		: 203-470-7

Safety Data Sheet

EC index no

: 603-015-00-6

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

3.2.	Mixture	е	
Not applicable			

SECTION 4: First aid measures

4.1. Description of first aid measure	S
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. 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. Obtain emergency medical attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: 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.
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protectiv	e equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.

Safety Data Sheet

6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for con	itainment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	3
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	Do not breathe vapours. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
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, i	including any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions	: Keep container tightly closed. Keep in fireproof place.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	nal 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	: Wear respiratory protection
SECTION 9: Physical and chemical pro	operties
9.1. Information on basic physical	and chemical properties
Physical state	: Liquid
Colour	: Colorless.
Odour	: pungent mustard.
Odour threshold	: No data available
рН	: No data available

Safety Data Sheet

Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -129 °C
Freezing point	: No data available
Boiling point	: 96 - 98 °C
Flash point	: 22 °C
Auto-ignition temperature	: 378 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Flammable liquid and vapour
Vapour pressure	: 31.7 hPa at 20 °C
Relative vapour density at 20 °C	: 2.01
Relative density	: No data available
Density	: 0.854 g/cm ³
Solubility	: Water: Easily soluble in cold water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.025 - 0.18 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 cases		

May release flammable gases.

Safety Data Sheet

SECTION 11: Toxicological information 11.1. Information on toxicological ef	
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life.

12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available
12.5.	Results of PBT and vPvB assessment
No add	itional information available
12.6.	Other adverse effects

No additional information available

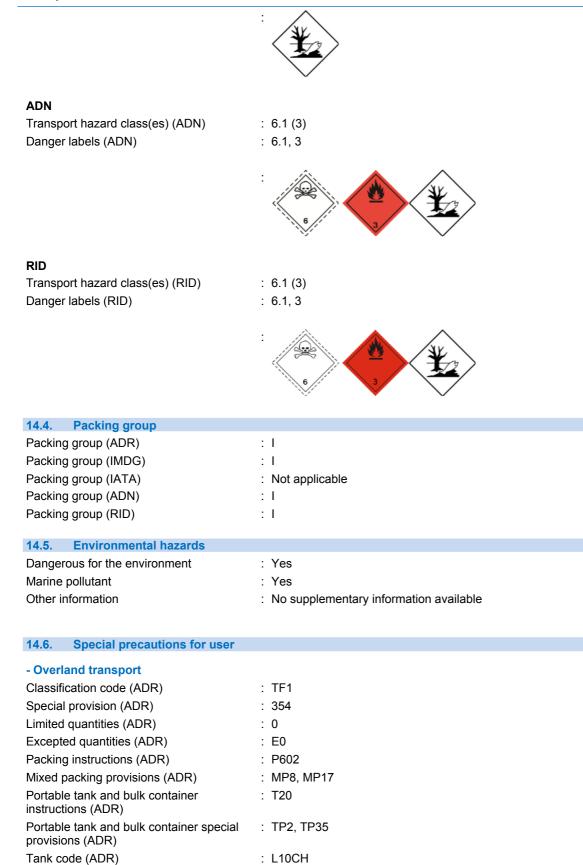
Safety Data Sheet

SECTION 13: Disposal considerations	S
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	· · · · · · · · · · · · · · · · · · ·

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

14.1. UN number	
UN-No. (ADR)	: 1098
UN-No. (IMDG)	: 1098
UN-No.(IATA)	: 1098
UN-No.(ADN)	: 1098
UN-No. (RID)	: 1098
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ALLYL ALCOHOL
Proper Shipping Name (IMDG)	: ALLYL ALCOHOL
Proper Shipping Name (IATA)	: ALLYL ALCOHOL
Proper Shipping Name (ADN)	: ALLYL ALCOHOL
Proper Shipping Name (RID)	: ALLYL ALCOHOL
Transport document description (ADR)	: UN 1098 ALLYL ALCOHOL, 6.1 (3), I, (C/D), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1098 ALLYL ALCOHOL, 6.1 (3), I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (21°C c.c.)
Transport document description (IATA)	: UN 1098 ALLYL ALCOHOL, 6.1, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1098 ALLYL ALCOHOL, 6.1 (3), I, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1098 ALLYL ALCOHOL, 6.1 (3), I, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1 (3)
Danger labels (ADR)	: 6.1, 3
IMDG	
Transport hazard class(es) (IMDG)	: 6.1 (3)
Danger labels (IMDG)	: 6.1, 3
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 6.1 (3)

Safety Data Sheet



: TU14, TU15, TE19, TE21

: CV1, CV13, CV28

: FL : 1

Vehicle for tank carriage

Transport category (ADR)

Tank special provisions (ADR)

unloading and handling (ADR)

Special provisions for carriage - Loading,

Safety Data Sheet

Special provisions for carriage - Operation (ADR)	: S2, S9, S14
Hazard identification number (Kemler No.)	: 663
Orange plates	
	663
	663 1098
	1070
Tunnel restriction code (ADR)	: C/D
EAC code	: •2WE
APP code	: A(fl)
- Transport by sea	
Special provision (IMDG)	: 354
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P602
Tank instructions (IMDG)	: T20
Tank special provisions (IMDG)	: TP2, TP13, TP35
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: F-⊑ : S-D
Stowage category (IMDG)	: D
Stowage category (IMDG) Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: 21°C c.c.
MFAG-No	: 131
MI AG-NO	. 151
- Air transport	
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity	: Forbidden
	F . 111.
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: Forbidden
CAO max net quantity (IATA)	: Forbidden
ERG code (IATA)	: 6F
 Inland waterway transport 	
Classification code (ADN)	: TF1
Special provisions (ADN)	: 354, 802
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: TF1
Special provision (RID)	: 354
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P602
Mixed packing provisions (RID)	: MP8, MP17
Portable tank and bulk container	: T20
instructions (RID)	
Portable tank and bulk container special	: TP2, TP35
provisions (RID)	

Safety Data Sheet

Tank codes for RID tanks (RID)	: L10CH
Special provisions for RID tanks (RID)	: TU14, TU15, TU38, TE21, TE22
Transport category (RID)	: 1
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28, CW31
Hazard identification number (RID)	: 663

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 ALLYL ALCOHOL FOR SYNTHESIS is not on the REACH Candidate List ALLYL ALCOHOL FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

ocimany		
AwSV/VwVwS Annex reference	:	Water hazard class (WGK) 2, hazardous to water (Classification according to VwVwS, Annex 2; WGK No 444)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark		
Class for fire hazard	:	Class II-1
Store unit	:	5 liter
Classification remarks	:	R10 <h225;h301+h311+h331;h315;h319;h335;h400>; Emergency management guidelines for the storage of flammable liquids must be followed</h225;h301+h311+h331;h315;h319;h335;h400>
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Safety Data Sheet

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
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	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H331	Toxic if inhaled	
H335	May cause respiratory irritation	
H400	Very toxic to aquatic life	
R10	Flammable	
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed	
R36/37/38		
R50	Very toxic to aquatic organisms	
Ν	Dangerous for the environment	
Т	Toxic	
Xi	Irritant	

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