CAS-No.: 141-78-6 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
	:
EC Index-No.	: 607-022-00-5
EC-No.	: 205-500-4
CAS-No.	: 141-78-6
Product code	: 00138
Formula	: C4H8O2
Chemical structure	: 0
	$H_3C^{\prime} ^{\prime}O^{\prime} ^{\prime}CH_3$

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

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, H225 Category 2 Serious eye damage/eye H319 irritation, Category 2 Specific target organ H336 toxicity — Single exposure, Category 3, Narcosis

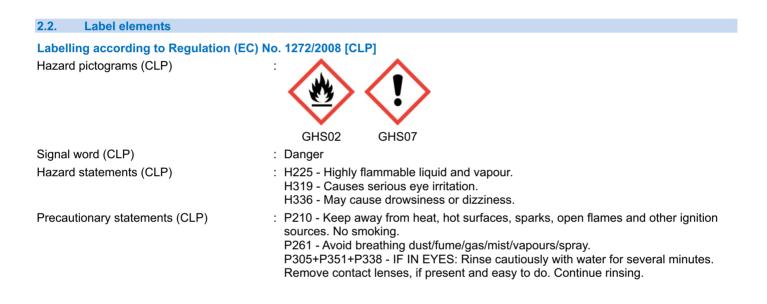
Full text of H statements : see section 16

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xi; R36 R66 R67 Full text of R-phrases: see section 16

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



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	: ETHYL ACETATE 99.5% AR/ACS	
CAS-No.	: 141-78-6	
EC-No.	: 205-500-4	
EC Index-No.	: 607-022-00-5	

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

3.2.	Mixtures					
Not app	plicable					

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SECTION 4: First aid measures

4.1.	Description of first aid measures	
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	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.
First-aid	measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid	measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2.	Most important symptoms and e	ffects, both acute and delayed
Symptom	ns/effects after inhalation	: May cause drowsiness or dizziness.
Symptom	ns/effects after eye contact	WCauses serious eye irritation.
4.3.	Indication of any immediate med	ical attention and special treatment needed
Treat syr	nptomatically.	
SECTIO	N 5: Firefighting measures	
5.1.	Extinguishing media	
	extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
	le extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the	substance or mixture
Fire haza	ard	: Highly flammable liquid and vapour.
Explosio	n hazard	: May form flammable/explosive vapour-air mixture.
5.3.	Advice for firefighters	
	n during firefighting	: Do not attempt to take action without suitable protective equipment.
Protectio	n during firefighting N 6: Accidental release measures	
Protectio SECTIOI	N 6: Accidental release measures	
Protectio SECTIOI 6.1.	N 6: Accidental release measures	
Protectio SECTIO 6.1. General	N 6: Accidental release measures Personal precautions, protective	equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open
Protectio SECTION 6.1. General N 6.1.1.	N 6: Accidental release measures Personal precautions, protective measures	equipment and emergency procedures : Remove ignition sources. Use special care to avoid static electric charges. No open
Protectio SECTIO 6.1. General I 6.1.1. Emergen	N 6: Accidental release measures Personal precautions, protective measures For non-emergency personnel acy procedures	 equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
Protectio SECTIO 6.1. General 1 6.1.1. Emergen 6.1.2.	N 6: Accidental release measures Personal precautions, protective measures For non-emergency personnel acy procedures For emergency responders	 equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Evacuate unnecessary personnel.
Protectio SECTIO 6.1. General f 6.1.1. Emergen 6.1.2. Protectiv	N 6: Accidental release measures Personal precautions, protective measures For non-emergency personnel acy procedures For emergency responders e equipment	 equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Evacuate unnecessary personnel. Avoid breathing dust/fume/gas/mist/vapours/spray.
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Protectio SECTIO 6.1. General I 6.1.1. Emergen 6.1.2. Protectiv Emergen 6.2. Avoid rel 6.3. Methods	N 6: Accidental release measures Personal precautions, protective measures For non-emergency personnel acy procedures For emergency responders e equipment acy procedures Environmental precautions ease to the environment. Methods and material for contair for cleaning up	 equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Evacuate unnecessary personnel. Avoid breathing dust/fume/gas/mist/vapours/spray. Stop release.
Protectio SECTIO 6.1. General 1 6.1.1. Emergen 6.1.2. Protectiv Emergen 6.2. Avoid rel 6.3. Methods 6.4.	N 6: Accidental release measures Personal precautions, protective measures For non-emergency personnel acy procedures For emergency responders e equipment acy procedures Environmental precautions ease to the environment. Methods and material for contair for cleaning up Reference to other sections	 equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Evacuate unnecessary personnel. Avoid breathing dust/fume/gas/mist/vapours/spray. Stop release.
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Protectio SECTIO 6.1. General I 6.1.1. Emergen 6.1.2. Protectiv Emergen 6.2. Avoid rel 6.3. Methods 6.4. No additi SECTIO	N 6: Accidental release measures Personal precautions, protective measures For non-emergency personnel acy procedures For emergency responders e equipment acy procedures Environmental precautions ease to the environment. Methods and material for contair for cleaning up Reference to other sections onal information available	 equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Evacuate unnecessary personnel. Avoid breathing dust/fume/gas/mist/vapours/spray. Stop release.

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Precautions for safe handling	: No open flames. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage	e, including any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting 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	

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
Molecular mass	: 88.11 g/mol
Colour	: Clear Colorless.
Odour	: fruity odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 6
Melting point	: -83 °C
Freezing point	: No data available
Boiling point	: 77 °C
Flash point	: -4 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: 426 °C
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour.

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Vapour pressure	:76 mm Hg at 20C
Relative vapour density at 20 °C	: 3
Relative density	: No data available
Density Solubility	: 0.902 g/cm³ : Water: 1 @ 25C (ml/10ml 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	: 0.02 - 0.115 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	
Highly hammable liquid and vapour. Ma	ay form flammable/explosive vapour-air mixture.
10.3.Possibility of hazardous realNo additional information available	ictions
10.4. Conditions to avoid	
Open flame. Direct sunlight.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition p	products
May release flammable gases.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicologica	l effects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Additional information	: Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

: Not classified

Reproductive toxicity

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STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTIO	SECTION 12: Ecological information		
12.1.	Toxicity		
No addi	itional information available		

12.2.	Persistence and degradability	
No add	litional information available	
10.0		
12.3.	Bioaccumulative potential	
No add	litional information available	
12.4.	Mobility in soil	
No add	litional information available	
40.5		
12.5.	Results of PBT and vPvB asse	essment
No add	litional information available	
12.6.	Other adverse effects	
No add	litional information available	
SECTI	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
	t/Packaging disposal	: Dispose of contents/container to hazardous or special waste collection point, in
recomr	nendations	accordance with local, regional, national and/or international regulation.
Additio	nal information	: Handle empty containers with care because residual vapours are flammable.
SECTI	ON 14: Transport information	
JECH	on 14. Transport information	

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

14.1. UN number	
UN-No. (ADR)	: 1173
UN-No. (IMDG)	: 1173
UN-No. (IATA)	: 1173
UN-No. (ADN)	: 1173
UN-No. (RID)	: 1173
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ETHYLACETATE

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Proper Shipping Name (IMDG)	: ETHYLACETATE
Proper Shipping Name (IATA)	: Ethyl acetate
Proper Shipping Name (ADN)	: ETHYLACETATE
Proper Shipping Name (RID)	: ETHYLACETATE
Transport document description (ADR)	: UN 1173 ETHYL ACETATE, 3, II, (D/E)
Transport document description (IMDG)	: UN 1173 ETHYL ACETATE, 3, II (-4°C c.c.)
Transport document description (IATA)	: UN 1173 Ethyl acetate, 3, II
Transport document description (ADN)	: UN 1173 ETHYL ACETATE, 3, II
Transport document description (RID)	: UN 1173 ETHYL ACETATE, 3, II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



_		_	_
	м	D	G

Transport hazard class(es) (IMDG) Danger labels (IMDG)



: 3

ΙΑΤΑ

Transport hazard class(es) (IATA)
Hazard labels (IATA)



: 3 : 3

: 3

: 3 : 3

ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

:	3
:	<u>*</u>
	3

RID

Transport hazard class(es) (RID)	
Danger labels (RID)	

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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
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 1173
Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	
	: TP1
EmS-No. (Fire)	: TP1 : F-E
EmS-No. (Fire) EmS-No. (Spillage)	
	: F-E
EmS-No. (Spillage)	: F-E : S-D
EmS-No. (Spillage) Stowage category (IMDG)	: F-E : S-D : B

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- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: 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
ERG code (IATA)	: 3L
- Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: F1
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
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

ETHYL ACETATE 99.5% AR/ACS is not on the REACH Candidate List ETHYL ACETATE 99.5% AR/ACS is not on the REACH Annex XIV List

15.1.2. National regulations

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Germany		
Reference to AwSV	:	Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV; ID No. 95)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
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		
Classification remarks	:	Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H225	Highly flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
R11	Highly flammable	
R36	Irritating to eyes	
R66	Repeated exposure may cause skin dryness or cracking	
R67	Vapours may cause drowsiness and dizziness	
F	Highly flammable	
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.