

CAS No: 107-31-3 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	: 607-014-00-1
EC no	: 203-481-7
CAS No	: 107-31-3
Product code	: 04653
Formula	: C2H4O2
Chemical structure	· O II
	H [™] OCH₃

Synonyms

: Formic acid methyl ester

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

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,	H224
Category 1	11000
Acute toxicity (inhal.), Category 4	H332
Acute toxicity (oral),	H302
Category 4	
Serious eye damage/eye	H319
irritation, Category 2	

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Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

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

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

F+; R12 Xn; R20/22 Xi; R36/37 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)	: -
Hazard statements (CLP)	 H224 - Extremely flammable liquid and vapour H302+H332 - Harmful if swallowed or if inhaled H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	 P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P261 - Avoid breathing dust/fume/gas/mist/vapours/spray 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	: METHYL FORMATE FOR SYNTHESIS
CAS No	: 107-31-3
EC no	: 203-481-7
EC index no	: 607-014-00-1

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

3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
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	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
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. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Extremely flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measures	3
6.1. Personal precautions, protective	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	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

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6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2. Conditions for safe storage, i	including any incompatibilities
Technical measures	: 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	
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
No additional information available	

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 p	properties
9.1. Information on basic physic	al and chemical properties
Physical state	: Liquid
Molecular mass	: 60.05 g/mol
Colour	: Clear Colorless.
Odour	: ethereal.

: No data available

Odour threshold	: 203.6 ppm
рН	: 4.0 - 5.0 at 200 g/l at 20 °C

Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -100 °C

Freezing point

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Boiling point : 32 - 34 Flash point : -19 °C Auto-ignition temperature : 449 °C Decomposition temperature : No data available Flammability (solid, gas) : Flammable Extremely flammable liquid and vapour Vapour pressure : 634.9 hPa at 20 °C Relative vapour density at 20 °C : 2.07 Relative density : No data available Density : 0.975 g/cm³ Solubility : 0.97 0.21 Viscosity, kinematic : No data available Explosive properties :	
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No additional information available 10.4. Conditions to avoid	
10.4. Conditions to avoid	
Sparks. Heat. Direct sunlight. Overheating. Open flame.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
May release flammable gases.	

SECTION 11: Tox	icological information

11.1. Information on toxicological effects

Acute toxicity

: Inhalation: Harmful if inhaled. Oral: Harmful if swallowed.

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Skin corrosion/irritation	: Not classified
	pH: 4.0 - 5.0 at 200 g/l at 20 °C
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 4.0 - 5.0 at 200 g/l at 20 °C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: May cause respiratory irritation.
exposure)	
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential adverse human health effects	: Harmful if swallowed.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
METHYL FORMATE FOR SYNTHESIS	(107-31-3)
Log Pow	-0.21
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asse	ssment
No additional information available	
12.6. Other adverse effects	
12.6. Other adverse effects No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	

13.1.	Waste treatment methods	
Product/Packaging disposal		: Dispose of contents/container to
recommendations		

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Additional information

: Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

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

14.1. UN number	
UN-No. (ADR)	: 1243
UN-No. (IMDG)	: 1243
UN-No.(IATA)	: 1243
UN-No.(ADN)	: 1243
UN-No. (RID)	: 1243
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: METHYL FORMATE
Proper Shipping Name (IMDG)	: METHYL FORMATE
Proper Shipping Name (IATA)	: METHYL FORMATE
Proper Shipping Name (ADN)	: METHYL FORMATE
Proper Shipping Name (RID)	: METHYL FORMATE
Transport document description (ADR)	: UN 1243 METHYL FORMATE, 3, I, (D/E)
Transport document description (IMDG)	: UN 1243 METHYL FORMATE, 3, I (-32°C c.c.)
Transport document description (IATA)	: UN 1243 METHYL FORMATE, 3, I
Transport document description (ADN)	: UN 1243 METHYL FORMATE, 3, I
Transport document description (RID)	: UN 1243 METHYL FORMATE, 3, I
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
	3
IMDG	
Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
	3
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
	3

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Safety Data Sheet	
Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3
	:
	3
	•
RID	
Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3
	3
	·
14.4. Packing group	
Packing group (ADR)	:1
Packing group (IMDG)	:1
Packing group (IATA)	:1
Packing group (ADN)	:1
Packing group (RID)	:1
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)	: 0
Excepted quantities (ADR)	: E3
Packing instructions (ADR)	: P001
Mixed packing provisions (ADR)	: MP7, MP17
Portable tank and bulk container	: T11
instructions (ADR) Portable tank and bulk container special	: TP2
provisions (ADR)	. 162
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: FL
Transport category (ADR)	: 1
Special provisions for carriage - Operation	
(ADR)	,
	: 33
Orange plates	22
	33
	1243
Tunnel restriction code (ADR)	: D/E
EAC code	: •2YE

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- Transport by sea	
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E3
Packing instructions (IMDG)	: P001
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: E
Flash point (IMDG)	: -32°C c.c.
MFAG-No	: 129
- Air transport	
PCA Excepted quantities (IATA)	: E3
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity	: Forbidden
(IATA)	
PCA packing instructions (IATA)	: 351
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 361
CAO max net quantity (IATA)	: 30L
ERG code (IATA)	: 3H
- Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E3
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	
	: PP, EX, A
Ventilation (ADN)	: PP, EX, A : VE01
Ventilation (ADN) Number of blue cones/lights (ADN)	: PP, EX, A : VE01
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport	: PP, EX, A : VE01 : 1
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport Classification code (RID)	: PP, EX, A : VE01 : 1 : F1
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport Classification code (RID) Limited quantities (RID)	: PP, EX, A : VE01 : 1 : F1 : 0
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID)	: PP, EX, A : VE01 : 1 : F1 : 0 : E3
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container	: PP, EX, A : VE01 : 1 : F1 : 0 : E3 : P001
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special	: PP, EX, A : VE01 : 1 : F1 : 0 : E3 : P001 : MP7, MP17
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID)	 PP, EX, A VE01 1 F1 0 E3 P001 MP7, MP17 T11 TP2
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID) Tank codes for RID tanks (RID)	 PP, EX, A VE01 1 F1 0 E3 P001 MP7, MP17 T11
Ventilation (ADN) Number of blue cones/lights (ADN) - Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID)	 : PP, EX, A : VE01 : 1 : F1 : 0 : E3 : P001 : MP7, MP17 : T11 : TP2 : L4BN

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

METHYL FORMATE FOR SYNTHESIS is not on the REACH Candidate List

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METHYL FORMATE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany	
AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 733)
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 I-1
Store unit	: 1 liter
Classification remarks	: F+ <flam. 1="" 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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 1	Flammable liquids, Category 1		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H224	Extremely flammable liquid and vapour		
H302	Harmful if swallowed		
H319	Causes serious eye irritation		
H332	Harmful if inhaled		
H335	May cause respiratory irritation		
R12	Extremely flammable		
R20/22	Harmful by inhalation and if swallowed		
R36/37	Irritating to eyes and respiratory system		
F+	Extremely flammable		
Xi	Irritant		
Xn	Harmful		

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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