

Revision Date 11-Apr-2013

Revision Number 3

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description: Methyl acetate
Reach Registration Number 01-2119459211-47
Cat No. 181380000; 181380010; 181380025
Synonyms Acetic acid, methyl ester; Methyl ethanoate.

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

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
 Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium
E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01
 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
 CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (single exposure)	Category 3
Flammable liquids.	Category 2

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s) F - Highly flammable
 Xi - Irritant
R-phrases(s) R11 - Highly flammable
 R36 - Irritating to eyes
 R66 - Repeated exposure may cause skin dryness or cracking
 R67 - Vapors may cause drowsiness and dizziness

SECTION 2. HAZARDS IDENTIFICATION

Label Elements



Signal Word

Danger

Hazard Statements

H336 - May cause drowsiness or dizziness

H319 - Causes serious eye irritation

H225 - Highly flammable liquid and vapor

EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

P240 - Ground/Bond container and receiving equipment

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	DSD Classification - 67/548/EEC	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Methyl acetate 79-20-9	EEC No. 201-185-2	>95	79-20-9	F; R11 Xi; R36 R66 R67	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	01-2119459211-47

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.
Ingestion	Clean mouth with water. Get medical attention.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Notes to Physician	Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Carbon dioxide (CO₂). Dry chemical. Use water spray to cool unopened containers. chemical foam.

Extinguishing media which must not be used for safety reasons

Water may be ineffective.

Special hazards arising from the substance or mixture

Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Flammables area.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component

Methyl acetate

European Union	The United Kingdom	France	Belgium	Spain
	STEL: 250 ppm 15 min STEL: 770 mg/m ³ 15 min TWA: 200 ppm 8 hr TWA: 616 mg/m ³ 8 hr	TWA / VME: 200 ppm (8 heures). TWA / VME: 610 mg/m ³ (8 heures). STEL / VLCT: 250 ppm. STEL / VLCT: 760 mg/m ³ . Peau	TWA: 200 ppm 8 uren TWA: 615 mg/m ³ 8 uren STEL: 250 ppm 15 minuten STEL: 768 mg/m ³ 15 minuten	STEL / VLA-EC: 250 ppm (15 minutos). STEL / VLA-EC: 770 mg/m ³ (15 minutos). TWA / VLA-ED: 200 ppm (8 horas) TWA / VLA-ED: 616 mg/m ³ (8 horas)

Component

Methyl acetate

Italy	Germany	Portugal	The Netherlands	Finland
	TWA: 200 ppm (8 Stunden). AGW - exposure factor 4 TWA: 610 mg/m ³ (8 Stunden). AGW - exposure factor 4 TWA: 100 ppm (8 Stunden). MAK TWA: 310 mg/m ³ (8 Stunden). MAK Höhepunkt: 400 ppm Höhepunkt: 1240 mg/m ³	STEL: 250 ppm 15 minutos TWA: 200 ppm 8 horas		TWA: 200 ppm 8 tunteina TWA: 610 mg/m ³ 8 tunteina STEL: 250 ppm 15 minuutteina STEL: 770 mg/m ³ 15 minuutteina

Component

Methyl acetate

Austria	Denmark	Switzerland	Poland	Norway
STEL: 400 ppm 15 Minuten STEL: 1220 mg/m ³ 15 Minuten TWA: 200 ppm 8 Stunden TWA: 610 mg/m ³ 8 Stunden	TWA: 150 ppm 8 timer TWA: 455 mg/m ³ 8 timer	STEL: 400 ppm 15 Minuten STEL: 1240 mg/m ³ 15 Minuten MAK: 100 ppm 8 Stunden MAK: 310 mg/m ³ 8 Stunden	NDSch: 600 mg/m ³ 15 minutach TWA: 250 mg/m ³ 8 godzinach	TWA: 100 ppm 8 timer TWA: 305 mg/m ³ 8 timer STEL: 150 ppm 15 minutter. STEL: 381.25 mg/m ³ 15 minutter.

Component

Methyl acetate

Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
	TWA: 200 ppm 8 satima. TWA: 616 mg/m ³ 8 satima. STEL: 250 ppm 15 minutama. STEL: 770 mg/m ³ 15 minutama.	TWA: 200 ppm 8 hr. TWA: 610 mg/m ³ 8 hr. STEL: 250 ppm 15 min STEL: 760 mg/m ³ 15 min		TWA: 600 mg/m ³ 8 hodinách. Ceiling: 800 mg/m ³

Component

Methyl acetate

Estonia	Gibraltar	Greece	Hungary	Iceland
TWA: 150 ppm 8 tundides. TWA: 450 mg/m ³ 8 tundides. STEL: 300 ppm 15 minutites. STEL: 900 mg/m ³ 15 minutites.		STEL: 250 ppm STEL: 760 mg/m ³ TWA: 200 ppm TWA: 610 mg/m ³	STEL: 2440 mg/m ³ 15 percekben. TWA: 610 mg/m ³ 8 órában. potential for cutaneous absorption	TWA: 150 ppm 8 klukkustundum. TWA: 455 mg/m ³ 8 klukkustundum. Ceiling: 300 ppm Ceiling: 910 mg/m ³

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Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Methyl acetate	TWA: 100 mg/m ³	TWA: 150 ppm TWA: 450 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³			TWA: 63 ppm 8 ore TWA: 200 mg/m ³ 8 ore STEL: 188 ppm 15 minute STEL: 600 mg/m ³ 15 minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Methyl acetate	MAC: 100 mg/m ³	Ceiling: 2440 mg/m ³ TWA: 200 ppm TWA: 610 mg/m ³	TWA: 200 ppm 8 urah TWA: 610 mg/m ³ 8 urah STEL: 800 ppm 15 minutah STEL: 2440 mg/m ³ 15 minutah	STV: 300 ppm 15 minuter STV: 900 mg/m ³ 15 minuter LLV: 150 ppm 8 timmar. LLV: 450 mg/m ³ 8 timmar.	

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls**Engineering Measures**

Ensure adequate ventilation, especially in confined areas

Personal protective equipment**Eye Protection**

Goggles

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

Liquid

Appearance

Colorless

Odor

aromatic

pH

No information available.

Vapor Pressure

220 mbar @ 20 °C

Vapor Density

(Air = 1.0)

Viscosity

0.38 mPa s at 20 °C

Boiling Point/Range

57.4°C / 135.3°F @ 760 mmHg

Melting Point/Range

-98°C / -144.4°F

Flash Point

-10°C / 14°F

Autoignition Temperature

455°C / 851°F

Explosion Limits**Lower**

3 Vol%

Upper

16 Vol%

Water Solubility

250 g/L (20°C)

Specific Gravity

0.930

Molecular Formula

C3 H6 O2

Molecular Weight

74.08

SECTION 10. STABILITY AND REACTIVITY

Reactivity**Chemical Stability**

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization No information available.
Hazardous Reactions No information available.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition, Excess heat, Incompatible products, Exposure to moisture.

Incompatible Materials

Acids, Bases.

Hazardous Decomposition ProductsCarbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects**Acute Toxicity****Component Information**

Component
Methyl acetate

LD50 Oral	LD50 Dermal	LC50 Inhalation
5000 mg/kg (Rat)	2000 mg/kg (Rat) 5000 mg/kg (Rabbit)	16000 ppm (Rat) 4 h

Chronic Toxicity**Carcinogenicity** There are no known carcinogenic chemicals in this product

Sensitization No information available.
Mutagenic Effects No information available
Reproductive Effects No information available.
Developmental Effects No information available.
Target Organs No information available.
Other Adverse Effects See actual entry in RTECS for complete information
Endocrine Disruptor Information None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity**Ecotoxicity effects** Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

SECTION 12. ECOLOGICAL INFORMATION

Methyl acetate	120 mg/L EC50 > 72 h	295-348 mg/L LC50 96 h 250-350 mg/L LC50 96 h	EC50 = 6000 mg/L 16 h EC50 = 6100 mg/L 30 min	1026.7 mg/L EC50 = 48 h
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Persistence and degradability

Expected to be biodegradable

Bioaccumulative potential

No information available.

Component	log Pow
Methyl acetate	0.18

Mobility in soil**Results of PBT and vPvB assessment****Other adverse effects**

No information available

SECTION 13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste from Residues / Unused Products Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION**IMDG/IMO**

UN-No 1231
Hazard Class 3
Packing Group II
Proper Shipping Name METHYL ACETATE

ADR

UN-No 1231
Hazard Class 3
Packing Group II
Proper Shipping Name METHYL ACETATE

IATA

UN-No 1231
Hazard Class 3
Packing Group II
Proper Shipping Name METHYL ACETATE

SECTION 15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Methyl acetate	201-185-2	-		T	X	-	X	X	X	X	X

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment**SECTION 16. OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R11 - Highly flammable

R36 - Irritating to eyes

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapors may cause drowsiness and dizziness

Revision Date 11-Apr-2013

Revision Summary

Reason for revision (M)SDS sections updated, 1, 3.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet