



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : M 12429
Product Name : METHYL ACETATE

Manufacturer / supplier identification
Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: acetic acid methyl ester

CAS-No. : 79-20-9 EC-No. : 201-185-2
EC-Index-No. : 607-021-00-X M : 74.08 g/mol
Formula Hill : C₃H₆O₂ Chemical formula : CH₃COOCH₃

3. **HAZARDS IDENTIFICATION** : Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

4. **FIRST AID MEASURES** :

After skin contact : Wash off with plenty of water.
Remove contaminated clothing.

After eye contact : Rinse out with plenty of water with the eyelid held wide open. Call in ophtalmologist.

After inhalation : Fresh air.

After swallowing : Make victim drink plenty of water, induce vomiting, call in physician.

5. **FIRE – FIGHTING MEASURES:** Suitable extinguishing media : Powder, foam.



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Special risks : Combustible. Vapours heavier than air. Forms explosive mixture with air at ambient temperatures. Development of hazardous combustion gases or vapours possible in the event of fire. .

Special protective equipment for fire fighting : Do not stay in dangerous zone without self-contained breathing apparatus.

Other information: Take measures to prevent electrostatic charging. Beware of back firing. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures: Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures : Do not allow to enter sewerage system; risk of explosion.

Procedures for cleaning/absorption: Take up with liquid-absorbent material (e.g. Chemizorb). Forward for disposal. Clean up effected area.

7. HANDLING AND STORAGE

Handling : Notes for prevention of fire and explosion: Keep away from sources of ignition. Take measures to prevent electrostatic charging.

Notes for safe handling : Avoid generation of vapours/aerosols. Work under hood. Do not inhale substance.

Storage : Tightly closed . Dry. In a well ventilated Place. Keep away from sources of ignition and heat. At +15° C to +25° C.



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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal protective equipment :

Protective clothing should be selected specifically for the working place,

depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection : Required when vapours/aerosols are generated.

Eye protection : Required

Hand protection : Required

Industrial hygiene : Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands & face after working with substance. Under no circumstances eat or drink at workplace. Work under hood. Do not inhale substance.

9. PHYSICAL & CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Colourless
Odour	:	Fruity
pH value	:	Neutral
Viscosity dynamic(20° C)	:	0.381 mPa *s
Melting temperature	:	98 °C
Boiling temperature	:	56-58 ° C
Ignition temperature	:	455 ° C (DIN 51794)
Flash point	:	13 ° C (DIN 51755)
Explosion limits lower	:	3.1 vol%
Upper	:	16 vol%
Vapour pressure (20° C)	:	217 hPa
Relative vapour density	:	2.6
Density (20° C)	:	0.93 g/cm ³
Solubility in water(20°C)	:	250 g/l



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Ethanol (20° C) : Soluble
Ether (20°C) : Soluble
Log pow : 0.18 (experimental)
Refractive index (20°C. 589 nm) : 1.3614

Further information : Distillable in an undecomposed state at normal pressure.

10. STABILITY AND REACTIVITY : Conditions to be avoided : Heating.

Substance to be avoided : oxidizing agent.

Hazardous decomposition products : No information available.

Further information : Highly inflammable;

Unsuitable working materials: various plastics, rubber.

Explosible with air in a vaporous/gaseous state.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD₅₀ (oral, rat): .5000 mg/kg.

LC₅₀(inhalation, rat): 32000 ppm(V) /4h.

LD₅₀(dermal, rat): . 2000 mg/kg.

Specific symptoms in animal studied:

Skin irritation test (rabbit): Slight irritations.

Eye irritation test (rabbit) : Irritations(OECD 405) .

Subacute to chronic toxicity : An embryotoxic effect need not be feared when the threshold limit value is observed.

Sensitization : Experience in man : No sensitising effect.

Bacterial mutagenicity : Ames- Test: negative.



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Further toxicological information :

When vapours /aerosols are generated: mucosal irritations, drowsiness,
narcosis.

After eye contact : Irritations.

After skin contact : Slight irritations. Drying –out effect resulting in rough
and chapped skin. Danger of skin absorption.

After absorption of toxic quantities : headache, dizziness, drowsiness, dyspnoea,
unconsciousness, narcosis.

Further data : The product should be handled with the care usual when dealing
with chemicals.

12. ECOLOGICAL INFORMATION

Degradability : Readily biodegradable.

Biodegradation : > 70 % (closed bottle test).

Behavior in environmental compartments:

Distribution: $\log p(o/w)$: 0.18(experimental).

No bioaccumulation is to be expected ($\log P(o/w) < 1$).

Ecotoxic effects : Risk of formation of explosive vapours above
water surface.

Biological effects : Fish toxicity : Br.rerio LC₅₀ : 250-350 mg/l /96h.

Daphnia toxicity : Daphnia EC₅₀: 1027 mg/l/48 h.

Algal toxicity : algae IC₅₀: >120 mg/l/72 h.

Bacterial toxicity : Photobacterium Phosphoreum EC₅₀:
6100 mg/l/30 min microtox test.

Further ecologic data : COD : 1.51 g/g, TOD : 1.512 g/g.

When introduced properly, no impairments in the function of adapted
biological waste –water-treatment plants are to be expected.

Do not allow to enter waters, waste water, or soil.



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13. DISPOSAL METHOD : Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country-and substance-specific information as well as contact partners.

Nice product packaging must be disposed of in compliance with the county-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners

14. TRANSPORT INFORMATION

Land transport : GGVS, GGVE, ADR,RID
Classification : 3/3b
Name : 1231 METHYL ACETATE
Transport by river : And, ADNR
Classification : Not tested
Transport by sea : IMDG, GGVsee
Classification : 3/UN 1231/PG 11
Ems : 3-06
MFAG
Name : METHYL ACETATE
Transport by air : ICAO, IATA
Classification : 3/UN 1231/PG 11
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15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : F Highly flammable
Xi Irritant



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R-phrases : 11-36-66-67 Highly flammable . Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

S-phrase : 16-26-29-33 Keep away from sources of ignition- No smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not empty into drains. Take precautionary measures against static discharges.

EC-No : 201-185-2 EC label
Water pollution class : -----

16. OTHER INFORMATION

Change in the chapter on first aid measures. Addition in the chapter ecology.

General update.

Regional representation :

This information is given on the authorised Safety Data Sheet for your country.

The information contained here in is based on the present state of our knowledge.

It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
