SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers
   Product name: Methyl Acetate
   CAS-No.: 79-20-9

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified uses: Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet
   Company: Central Drug House (P) Ltd
   7/28 Vardaan House
   New Delhi -110002
   INDIA
   Telephone: +91 11 49404040
   Email: care@cdhfinechemical.com

1.4 Emergency telephone number
   Emergency Phone #: +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification according to Regulation (EC) No 1272/2008
   Flammable liquids (Category 2), H225
   Eye irritation (Category 2), H319
   Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

   For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements
   Labelling according Regulation (EC) No 1272/2008
   Pictogram
   Signal word: Danger
   Hazard statement(s):
   H225: Highly flammable liquid and vapour.
   H319: Causes serious eye irritation.
   H336: May cause drowsiness or dizziness.
Precautionary statement(s)
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear eye protection/ face protection.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P403 + P235 Store in a well-ventilated place. Keep cool.
Supplemental Hazard information (EU)
EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients
3.1 Substances
Formula : C₃H₆O₂
Molecular weight : 74.08 g/mol
CAS-No. : 79-20-9
EC-No. : 201-185-2
Index-No. : 607-021-00-X

Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
Methyl acetateCAS-No. 79-20-9 Flam. Liq. 2; Eye Irrit. 2; STOT <= 100 %
EC-No. 201-185-2 SE 3; H225, H319, H336
Index-No. 607-021-00-X

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available
SECTION 5: Firefighting measures

5.1 Extinguishing media
   Suitable extinguishing media
   Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
   Carbon oxides

5.3 Advice for firefighters
   Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
   Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
   Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
   For personal protection see section 8.

6.2 Environmental precautions
   Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
   Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
   For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
   Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
   Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
   For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
   Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

   Moisture sensitive.
   Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
   Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls
   Appropriate engineering controls
   Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

   Personal protective equipment
      Eye/face protection
      Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**
Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

| a) Appearance | Form: clear, liquid
| b) Odour | like fruit
| c) Odour Threshold | No data available
| d) pH | No data available
| e) Melting point/freezing point | Melting point/range: -98 °C - lit.
| f) Initial boiling point and boiling range | 57 - 58 °C - lit.
| g) Flash point | -12.99 °C - closed cup - DIN 51755 Part 1
| h) Evaporation rate | No data available
| i) Flammability (solid, gas) | No data available
| j) Upper/lower flammability or explosive limits | Upper explosion limit: 16 % (V)
| k) Vapour pressure | 217 mbar at 20 °C
| l) Vapour density | 2.8
| m) Relative density | 0.934 g/cm³ at 25 °C
| n) Water solubility | 319 g/l at 20 °C
| o) Partition coefficient: n-octanol/water | log Pow: 0.18
| p) Auto-ignition temperature | 454 °C at 1,013 hPa
| q) Decomposition temperature | No data available
| r) Viscosity | No data available
| s) Explosive properties | No data available
| t) Oxidizing properties | No data available

9.2 Other safety information
Surface tension 24 mN/m at 20 °C
Relative vapour density 2.8

SECTION 10: Stability and reactivity
10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heat, flames and sparks.
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information
11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - male - 6,482 mg/kg(Methyl acetate)
(OECD Test Guideline 401)
LC50 Inhalation - Rabbit - male and female - 4 h - 49.2 - 98.4 mg/l(Methyl acetate)
LD50 Dermal - Rabbit - > 5,000 mg/kg(Methyl acetate)

Skin corrosion/irritation
Skin - Rabbit(Methyl acetate)
Result: No skin irritation - 4 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit(Methyl acetate)
Result: Irritating to eyes.
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available(Methyl acetate)

Germ cell mutagenicity
Ames test(Methyl acetate)
S. typhimurium
Result: negative
OECD Test Guideline 474(Methyl acetate)
Rat - male and female
Result: negative

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No data available(Methyl acetate)

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness. - Central nervous system(Methyl acetate)
Specific target organ toxicity - repeated exposure
No data available (Methyl acetate)

Aspiration hazard
No data available (Methyl acetate)

Additional Information
Repeated dose toxicity - Rat - male and female - Inhalation (Methyl acetate)
RTECS: AI9100000
Narcosis, This product is metabolized into formic acid. Humans and other primates may formic acid can build up in the body producing toxic effects possibly may have limited relevance for human risk assessment (Methyl acetate)

SECTION 12: Ecological information

12.1 Toxicity
Toxicity to fish static test LC50 - Danio rerio (zebra fish) - 250 - 350 mg/l - 96 h (Methyl acetate) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 1,026.7 mg/l - 48 h (Methyl acetate) (OECD Test Guideline 202)
Toxicity to algae static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - > 120 mg/l - 72 h (Methyl acetate) (OECD Test Guideline 201)
Toxicity to bacteria EC50 - Pseudomonas putida - 6,000 mg/l - 16 h (Methyl acetate)

12.2 Persistence and degradability
Biodegradability aerobic - Exposure time 28 d (Methyl acetate)
Result: 70 % - Readily biodegradable (OECD Test Guideline 301D)

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available (Methyl acetate)

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to the licensed disposal company.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: 1231
IMDG: 1231
IATA: 1231

14.2 UN proper shipping name
ADR/RID: METHYL ACETATE
IMDG: METHYL ACETATE
IATA: Methyl acetate
14.3 Transport hazard class(es)  
ADR/RID: 3  
IMDG: 3  
IATA: 3

14.4 Packaging group  
ADR/RID: II  
IMDG: II  
IATA: II

14.5 Environmental hazards  
ADR/RID: no  
IMDG Marine pollutant: no  
IATA: no

14.6 Special precautions for user  
No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment  
For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

EUH066  Repeated exposure may cause skin dryness or cracking.
H225  Highly flammable liquid and vapour.
H319  Causes serious eye irritation.
H336  May cause drowsiness or dizziness.

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.