Revision number: 1 Revision date: 09/05/2019 Page 1 of 4

Revision date: 09/05/2019

SAFETY DATA SHEET

Category 4

1. IDENTIFICATION

Product name: Ethyl Acetoacetate

Product code: A0649

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture PHYSICAL HAZARDS

Flammable liquids HEALTH HAZARDS

Acute toxicity (Oral)
Skin corrosion/irritation
Serious eye damage/eye irritation
Category 3
Category 2A
ENVIRONMENTAL HAZARDS
Not classified

Label elements

Pictograms or hazard symbols



Signal word Warning

Hazard statements Combustible liquid

May be harmful if swallowed Causes mild skin irritation Causes serious eye irritation

Precautionary statements

[Prevention] Keep away from flames and hot surfaces. – No smoking.

Wash hands and face thoroughly after handling.

Wear protective gloves, eye protection.

[Response] If skin irritation occurs: Get medical advice or attention.

IF IN EYES: 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 or attention.

Call a POISON CENTER or doctor if you feel unwell.

In case of fire: Use dry chemical, dry sand or foam to extinguish.

[Storage] Store in a well-ventilated place. Keep cool.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

Revision date: 09/05/2019 Page 2 of 4

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Ethyl Acetoacetate Components: >98.0%(GC) Percent: CAS RN: 141-97-9

3-Oxobutyric Acid Ethyl Ester, Acetoacetic Acid Ethyl Ester, Ethyl 3-Oxobutyrate Synonyms:

Chemical Formula: C₆H₁₀O₃

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

Remove/Take off immediately all contaminated clothing. Rinse skin with Skin contact:

water/shower. If skin irritation or rash occurs: Get medical advice/attention.

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.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and

air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing

Dry chemical, foam, water spray, carbon dioxide.

media:

Unsuitable extinguishing

Solid streams of water

media:

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable

> fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the

surroundings: Remove movable containers if safe to do so.

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment

for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

controlled around the leakage area by roping off, etc.

Environmental precautions:

Prevent product from entering drains.

Methods and materials for containment and cleaning

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered

or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

Prevention of secondary

hazards:

up:

Remove all sources of ignition. Fire-extinguishing devices should be prepared in

case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective

> equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or

aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any

incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store away from incompatible materials such as oxidizing agents.

Comply with laws. Packaging material:

Revision date: 09/05/2019 Page 3 of 4

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be

exposed directly. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Vapor respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires. **Skin and body protection:** Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Clear

Colorless - Almost colorless

Odour: Fruity

pH: No data available

Melting point/freezing point: -43°C Boiling point/range: 184°C Flash point: 75°C

Flammability or explosive

limits:

Lower: 1.4% Upper: 9.5%

Vapour pressure: 0.1kPa/20°C

Vapour density: 4.48 Relative density: 1.03

Solubility(ies):

[Water] Slightly soluble (2.86g/100mL, 20°C)

[Other solvents]

Miscible: Ether, Acetone, Many organic solvents

Log Pow: 0.27 Autoignition temperature: 295°C

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Conditions to avoid: Open flame

Incompatible materials: Oxidizing agents, Acids, Bases, Reducing agents

Hazardous decomposition Carbon dioxide, Carbon monoxide

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:3980 mg/kg

skn-rbt LD:>20 mL/kg

Skin corrosion/irritation: skn-rbt 510 mg open MLD **Serious eye** eye-rbt 100 mg SEV

Serious eye damage/irritation:

Germ cell mutagenicity: dnr-bcs 21 mg/disc

mmo-esc 200 ug/plate (-S9)

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
RTECS Number: AK5250000

Revision date: 09/05/2019 Page 4 of 4

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:

Crustacea:

Algae:

Persistence / degradability:

Bioaccumulative

No data available
No data available
No data available
No data available

potential(BCF): Mobility in soil

Log Pow: 0.27

Soil adsorption (Koc): No data available Henry's Law (PaM ³/mol): No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: Does not correspond to the classification standard of the United Nations

UN-No: Not listed

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.