

MATERIAL SAFETY DATA SHEET

ACETYL PROPIONYL NATURAL

1. Identification

- Chemical name Pentane-2,3-dione
- Synonyms 2,3-Pentanedione
- Molecular Formula C₅H₈O₂
- Molecular Weight 100.12
- CAS No. 600-14-6
- FEMA No. 2841
- EINECS No. 209-984-8
- FDA 172.510
- CoE 2039

2. Hazards identification

- **Classification of the substance or mixture**
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Flammable liquids (Category 2) H225

- **Label elements**
Labelling according Regulation (EC) No 1272/2008 [CLP]



Pictogram

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour

Precautionary statement(s)

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

P370 + P378 In case of fire: Use dry powder or dry sand to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

Supplemental Hazard none

Statements

- **Other hazards** none

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3. **Composition/information on ingredients**

- Acetyl Propionyl Natural ≥96%
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4. **First aid measures**

- **Eye contact**
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
 - **Skin contact**
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
 - **Inhalation**
Remove from exposure and move to fresh air immediately. Get medical aid.
 - **After ingestion**
Get medical aid. Wash mouth out with water.
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5. **Fire-fighting measures**

- **General Information**
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
 - **Extinguishing Media**
Use water spray, dry chemical, carbon dioxide, or chemical foam.
 - **Special method of fire-fighting**
Cool endangered containers with water spray; Containers may explode when heated.
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6. **Accidental release measures**

- **General Information**
Use proper personal protective equipment as indicated in Section 8.
 - **Spills/Leaks**
Vacuum or sweep up material and place into a suitable disposal container.
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7. **Handling and storage**

- **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.
- **Storage**

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NITROGEN PROTECTION! PURGE HEADSPACE WITH NITROGEN AFTER EACH OPENING. Keep in tightly closed container and store in **COOL** (5-10 °C) **DARK AREA**.

8. Exposure controls and personal protection

- Technical measures Local exhaust ventilation necessary
Take precautionary measures against electrostatic charging
Processing in closed systems, if possible superposed by inert gas (e.g. nitrogen).
 - Engineering Controls Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower..
 - Respiratory protection In case of olfactory nuisance: respirator with independent air supply or mask with activated charcoal filter
 - Eyes Safety glasses
 - Hand Protective gloves
 - Skin Wear appropriate protective clothing to prevent skin exposure
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9. Physical and chemical properties:

- Form Liquid
 - Color Yellow to yellow-green
 - Odor Penetrating, buttery on dilution
 - PH value at 10g/l H₂O N/A
 - Boiling point 110 - 112 °C - lit.
 - Flash point 19 °C - open cup
 - Melting point -52 °C - lit.
 - Explosive properties N/A
 - Lower explosion limit N/A
 - Upper explosion limit N/A
 - Ignition temperature N/A
 - Oxidizing properties N/A
 - Vapor pressure N/A
 - Specific gravity @ 25°C 0.952 - 0.962
 - Solubility in water Insoluble
 - Organic solvents Soluble
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10. Stability and reactivity

- Chemical Stability Stable at room temperature in closed containers under normal storage and handling conditions.

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- **Conditions to Avoid** Ignition sources, excess heat, freezing temperatures, confined spaces.
 - **Substances to be avoided** Metals, strong oxidizing agents, strong bases.
 - **Hazardous decomposition** Carbon dioxide, carbon monoxide.
 - **Hazardous Polymerization:** Will not occur.
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11. Toxicological information

- **Acute toxicity** LD50 Oral - rat - 3.000 mg/kg
LD50 Dermal - rabbit - > 2.500 mg/kg
 - **Sensitization** No information available.
 - **Mutagenicity** No information available.
 - **Other Studies** See actual entry in RTECS for complete information.
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12. Ecological information

- No information available
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13. Disposal considerations

- **Waste from residues** Observe local/national regulations regarding waste disposal
Incinerate in qualified installation with flue gas scrubbing
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14. Transport information

- **UN number**
ADR/RID:1224 IMDG:1224 IATA:1224
 - **Shipping Name**
ADR/RID: KETONES, LIQUID, N.O.S. (pentane-2,3-dione)
IMDG: KETONES, LIQUID, N.O.S. (pentane-2,3-dione)
IATA: Ketones, liquid, n.o.s. (pentane-2,3-dione)
 - **Hazard Class**
ADR/RID:3 IMDG:3 IATA:3
 - **Packing Group**
ADR/RID:II IMDG:II IATA:II
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15. Regulatory information

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

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
no data available
 - **Chemical Safety Assessment**
no data available
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16. Other information

- Document Number B-N28410-09
- Creation Date Mar. 2, 20
- Revision 9.0
- Disclaimer The information contained herein 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.

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