



**SECTION 1 - CHEMICAL PRODUCT** MSDS Name: Acetyl Acetone  
Catalog Numbers: 12696-0000  
Synonyms: 2,4-Pentanedione

**SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**  
Hazard Symbols: Flammable liquid

**SECTION 3 - HAZARDS IDENTIFICATION**

Emergency Overview

Flammable. Toxic (USA) Harmful (EU).

Toxic if swallowed. Irritation to eyes, respiratory system and skin.

Neurological hazard. Target organ(s): Thymus. Nerves.

Potential Health Effects

Eye: May cause moderate eye irritation.

Skin: May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation.

**SECTION 4 - FIRST AID MEASURES**

Eyes: Immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin: Immediately wash skin with soap and copious amounts of water.

Inhalation: Wash out mouth with water provided person is conscious. Call a physician. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**SECTION 5 - FIRE FIGHTING MEASURES**

General Information: As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific

CAS# Chemical Name % EINECS#

123-54-6 Acetyl Acetone 99% unlisted

Hazard: vapor may travel considerable distance to source of ignition and flash back.

Extinguishing Media: Use water spray, dry chemicals, or carbon dioxide.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

General Information: Wear respirator, chemical safety goggles, rubber boots, and heavy

rubber gloves.

Spills/Leaks: Evacuate area. Shut off all sources of ignition.

#### **SECTION 7 - HANDLING and STORAGE**

Handling: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage: Keep tightly closed. Keep away from heat, sparks and open flame.

#### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls: Use only in a chemical fume hood. Safety shower and eye bath.

Use nonsparking tools.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Where risk assessment shows air-purifying respirators are combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** Physical State : Transparent Liquid

Appearance : Colorless Vapor Pressure : 2.96 mmHg

Vapor Density : 3.5 g/L Boiling Point : 136.00~138.00°C

Melting Point : -23.0°C Flash Point : 38°C (closed up)

Explosion Limits : Lower: 1.7% Upper: 11.4% Molecular Weight : 100.12

#### **SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability: Stable under normal temperatures and pressures.

Incompatibilities with Other Materials: Strong oxidizing agents, reducing agents, strong bases, metals.

Hazardous Polymerization: Has not been reported.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

RTECS#: CAS# 123-54-6: SA1925000

LD50/LC50:

CAS# 123-54-6: Oral, rat: LD50 = 55 mg/kg; Oral, Mouse: LD50 = 951 mg/kg.

Other: See actual entry in RTECS for complete information.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

#### **SECTION 14 - TRANSPORT INFORMATION IATA**

Proper Shipping Name: Pentane-2,-dione UN No. 2310

Hazard Class: 3 Packing Group: III  
IMO Proper Shipping Name: Pentane-2,-dione  
UN No. 2310 Hazard Class: 3  
Packing Group: III RID/ADR  
Proper Shipping Name: Pentane-2,-dione UN No. 2310  
Hazard Class: 3 Packing Group: III

#### **SECTION 15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols: Xn Risk Phrases:

10-22 Safety Phrases: 21-23-24/25 WGK (Water Danger/Protection) CAS# 123-54-6: 2

Canada CAS# 123-54-6 is listed on Canada's DSL List.

CAS# 123-54-6 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits US FEDERAL TSCA CAS# 123-54-6 is listed on the TSCA inventory.

#### **SECTION 16 - ADDITIONAL INFORMATION**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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