



## SAFETY DATA SHEET (SDS)

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**Product Name:** Musk Ketone

**Chemical Name:** 4-tert-Butyl-2,6-dimethyl-3,5-dinitroacetophenone

**CAS Number:** 81-14-1

**EC Number:** 201-328-9

**Product Type:** Aroma Chemical / Nitro Musk

**Recommended Use:** Fragrance ingredient for perfumery applications, subject to applicable regulatory restrictions.

**Supplier:** Aromology Trading LLC

**Issue Date:** 20 August 2025

**Version:** 1.0

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### SECTION 1: IDENTIFICATION

**Product Identifier:** Musk Ketone

**Recommended Use:** Perfumery and aromatic applications where legally permitted. Not for ingestion, pharmaceutical or medicinal use.

**Emergency Telephone:** +971 505 197 601

### SECTION 2: HAZARDS IDENTIFICATION

| Hazard Class             | Category    |
|--------------------------|-------------|
| Skin Irritation          | Category 2  |
| Eye Irritation           | Category 2A |
| Aquatic Chronic Toxicity | Category 2  |

**Signal Word:** Warning

#### Hazard Statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long-lasting effects.

#### Precautionary Statements

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulations.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS



| Component   | CAS Number | Concentration |
|-------------|------------|---------------|
| Musk Ketone | 81-14-1    | ≥98%          |

#### SECTION 4: FIRST AID MEASURES

**Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.

**Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice if discomfort occurs.

**Symptoms:** Skin irritation, eye irritation and possible discomfort from dust exposure.

#### SECTION 5: FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical powder, foam, water spray.

**Unsuitable Media:** Direct water jet.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, nitrogen oxides and irritating organic vapours.

**Protective Equipment:** Self-contained breathing apparatus and protective clothing.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid dust formation. Avoid contact with skin and eyes. Provide adequate ventilation. Prevent release into drains, soil and waterways. Collect mechanically or absorb with inert material. Dispose according to local regulations.

#### SECTION 7: HANDLING AND STORAGE

**Handling:** Avoid inhalation of dust. Avoid skin and eye contact. Use in well-ventilated areas. Observe good industrial hygiene practices.

**Storage:** Store below 25°C. Keep container tightly closed. Protect from heat, light and moisture. Store away from strong oxidising agents.

#### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** No occupational exposure limits established.

**Eye Protection:** Safety goggles.

**Skin Protection:** Chemical-resistant gloves.

**Respiratory Protection:** Dust mask or particulate respirator where dust is generated.

**Engineering Controls:** Provide adequate ventilation.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property   | Specification                            |
|------------|------------------------------------------|
| Appearance | Pale yellow to yellow crystalline powder |



| Property         | Specification                                                             |
|------------------|---------------------------------------------------------------------------|
| Odour            | Sweet, powdery, musky, animalic                                           |
| Melting Point    | 134–137 °C                                                                |
| Relative Density | Approx. 1.29 g/cm <sup>3</sup>                                            |
| Solubility       | Practically insoluble in water; soluble in alcohol and perfumery solvents |
| Flash Point      | Not applicable under normal handling as solid                             |
| Vapour Pressure  | Very low                                                                  |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended conditions.

**Chemical Stability:** Stable under normal storage conditions.

**Conditions to Avoid:** Excessive heat, dust formation, strong sunlight and incompatible materials.

**Incompatible Materials:** Strong oxidising agents, strong reducing agents.

**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides and organic decomposition products.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Skin, eyes, inhalation of dust and ingestion.

**Skin:** May cause irritation.

**Eyes:** May cause serious irritation.

**Inhalation:** Dust may irritate the respiratory tract.

**Ingestion:** May cause discomfort if swallowed.

**Sensitisation:** No classification based on available information.

**Carcinogenicity / Mutagenicity / Reproductive Toxicity:** No classification stated here based on available supplier-style information.

## SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic life with long-lasting effects. Avoid release into the environment. Low water solubility and potential environmental persistence should be considered when handling and disposing of this material.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and containers in accordance with local, national and international regulations. Do not discharge into drains, soil or waterways.

## SECTION 14: TRANSPORT INFORMATION

| Parameter       | Information   |
|-----------------|---------------|
| UN Number       | Not regulated |
| Proper Shipping | Not regulated |



| Parameter        | Information                                                                         |
|------------------|-------------------------------------------------------------------------------------|
| Name             |                                                                                     |
| Hazard Class     | Not regulated                                                                       |
| Packing Group    | Not applicable                                                                      |
| Marine Pollutant | No, unless shipped under environmentally hazardous criteria by batch classification |

## SECTION 15: REGULATORY INFORMATION

Prepared in accordance with UN GHS, CLP Regulation (EC) No. 1272/2008, REACH Regulation (EC) No. 1907/2006 and applicable fragrance ingredient safety practices. Regulatory acceptability for cosmetic or fragrance use should be verified for the target market before use.

## SECTION 16: OTHER INFORMATION

This Safety Data Sheet provides general safety and handling information for Musk Ketone used as a perfumery raw material where permitted by applicable regulations.

**Prepared By:**

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**Title:** Director

**Company:** Aromology Trading LLC

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