

Material Safety Data Sheet

RightCool™ Menthyl Glycerin Acetal

The Ingredient House, LLC. urges the customer receiving this Material Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet, (2) furnish a copy to each of your customers for the product and (3) request your customers to inform their employees and customers as well.

| 1. Identification of Substance | |
|--------------------------------|--|
| Product: | RightCool™ Menthyl Glycerin Acetal |
| Supplier: | The Ingredient House, LLC 293 Olmsted Blvd, Suite 5 Pinehurst, NC 28374 Telephone: 910-235-4495 Fax: 877-542-4844 E-mail: support@theingredienthouse.com Web: www.theingredienthouse.com |
| Original Manufacturer: | Kunshan Asia Essence Daily Aroma Co., Ltd. 269 Middle Wenpu Road, Qiandeng Town, Kunshan City, Jiangsu, 215347, China Telephone: +86-512-5789-9851 Fax: +86-512-5780-1582 |
| Product Number: | RCOL-105 |

| 2. Product Identification | |
|---------------------------|--|
| Common Name: | Menthyl Glycerin Acetal |
| Chemical Name: | L-Menthone 1,2-glycerol ketal |
| Synonyms: | MGA |
| CAS Number: | 63187-91-7 |
| Molecular Weight: | 228.33 |
| Chemical Formula: | C ₁₃ H ₂₄ O ₃ |

| 3. Hazards Identification | |
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| This product is not considered as hazardous according to EU Directive 1999/45/EC. | |
| Emergency Overview | As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. May cause irritation. |
| HMIS Health Rating: | 1 - Slight |
| HMIS Flammability Rating: | 1 - Slight |
| HMIS Reactivity Rating: | 1- Slight |
| HMIS Personal Protection: | E - Goggles; Gloves; Dust respirator |
| Potential Health Effects | |
| Inhalation: | May cause respiratory tract irritation. |
| Ingestion: | May be harmful if swallowed. |
| Skin Contact: | May cause skin irritation. |
| Eye Contact: | May cause eye irritation. |
| Chronic Exposure: | May be harmful if ingested |

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|---------------------|-------------------------|---------------|---|----------------------|--------|
| Product: | Menthyl Glycerin Acetal | Doc Name: | RightCool Menthyl Glycerin Acetal MSDS with OM 7-11 | | |
| Doc Effective Date: | 7/25/11 | Doc Revision: | 1 | Doc Expiration Date: | 7/1/13 |
| Date Printed: | 7/29/11 | Time: | 2:24 PM | Page: | 1 of 3 |

4. First Aid Measures

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| Inhalation: | Treat symptoms and provide fresh air. Get medical advice if irritation develops. |
| Ingestion: | Wash mouth out with plenty of water. Get medical help immediately. |
| Skin Contact: | Remove any contaminated clothing or shoes. Wash exposed area with soap and water for at least 15 minutes. Get medical advice if irritation develops. |
| Eye Contact: | Wash thoroughly with running water including under eyelids. Get medical help immediately. |

5. Fire Fighting Measures

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| Fire: | Not considered to be a fire hazard stable and unreactive under normal conditions. |
| Explosion: | Not considered to be an explosion hazard. Closed containers may build up pressure at elevated temperatures, cool with water spray |
| Fire Extinguishing Media: | Carbon Dioxide, dry chemical foam or water spray only for extinguishing any surrounding fire. |
| Special Information: | Use protective clothing and breathing equipment appropriate for the surrounding fire. |

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and direct sun light. Containers of this material may be hazardous when empty since they retain product residues observe all warnings and precautions listed for the product.

Do not store near strong acids & strong bases

8. Exposure Controls/Personal Protection

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| Airborne Exposure Limits: | None established. |
| Ventilation System: | In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered. |
| Personal Respirators (NIOSH Approved): | For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. |
| Skin Protection: | Wear protective gloves and clean body-covering clothing. |
| Eye Protection: | Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area. |

9. Physical and Chemical Properties

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| Appearance: | White liquid |
| Odor: | Slight menthol odor |
| Solubility in Water: | Insoluble |
| Solubility in Ethanol: | Soluble |
| Molecular Weight: | 228.33 |
| Flash Point: | 143°C |
| Explosive Properties: | Not to be expected |
| Specific Gravity: | 1.0270 – 1.0330 |
| Boiling Point: | > 250°C |
| Refractive Index: | 1.4740 – 1.4780 |

10. Stability and Reactivity

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| Stability: | Stable under ordinary conditions of use and storage. |
| Hazardous Decomposition Products: | When heated to decomposition, this product emits fumes of Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen and Acrid fumes. |
| Hazardous Polymerization: | Will not occur. |
| Incompatibilities: | This product may react with strong oxidizing agents, acids and bases. |
| Conditions to Avoid: | Heat, flames, ignition sources and incompatibles. |

11. Toxicology Information

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| Toxicity Data: | |
| Acute Oral Toxicity: | LD50: 730 mg/kg (rat) |
| Acute Inhalation Toxicity: | Not determined |
| Acute Dermal Toxicity: | Not determined |

12. Ecological Information

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| Environmental Fate: | Not determined |
| Environmental Toxicity: | Not determined |

13. Disposal Considerations

Dispose of waste in accordance with all applicable Federal, State, and local laws.

14. Transport Information

Not regulated.

15. Regulatory Information

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|-------------------------------------|------------------------------|
| U.S. Regulatory Information: | 21 CFR 172.800 |
| U.S. TSCA: | CAS No. 63187-91-7 compliant |
| Canada DSL: | Compliant |
| FEMA Number: | 3807 |

16. Other Information

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|------------------------------|--|
| HMIS Ratings: | Health: 1 , Flammability: 1 , Reactivity: 1 . |
| Label Hazard Warning: | As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. |
| Label Precautions: | Store in closed container. Maintain adequate ventilation. |
| Label First Aid: | Not applicable. |

DISCLAIMER:

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal, state or local laws.