

**Section 1. Product and Company Identification**

**Product Name** R(-)- $\alpha$ -Methylbenzyl isothiocyanate  
**Product ID** M1777  
**Chemical Name (Synonyms)** L- $\alpha$ -Methylbenzyl isothiocyanate  
**Supplier** LKT Laboratories, Inc  
545 Phalen Blvd.  
St. Paul, MN 55130 USA  
Ph: 651-644-8424 Fax: 651-644-8357  
www.lktlabs.com - getinfo@lktlabs.com

**Emergency Phone #** 1-800-424-9300

**Section 2. Hazards Identification**

**GHS Classification** Flammable liquids (Category 4), H227  
Skin irritation (Category 2), H315  
Skin sensitization (Category 1), H317  
Eye irritation (Category 2A), H319  
Respiratory sensitization (Category 1), H334  
Specific target organ toxicity - single exposure (Category), Respiratory system, H335.

**GHS Label elements including precautionary statements**

**Pictogram**



**Signal word** Danger

**Hazard and precautionary statements**

**Hazard statements**

H227 - Combustible liquid.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 - May cause respiratory irritation.

**Precautionary statements**

P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.  
P261 - Avoid breathing dust.  
P264 - Wash skin thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves, protective clothing, eye protection and face protection.  
P285 - In case of inadequate ventilation wear respiratory protection.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 - If skin irritation persists: Get medical advice.  
P337 + P313 - If eye irritation persists: Get medical advice.  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.  
P362 - Take off contaminated clothing and wash before reuse.  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P233 + P235 - Store in a well-ventilated place. Keep container tightly closed. Keep product cool.  
P405 - Store locked up. / **P501** - Dispose of contents/container to an approved waste disposal plant.

**HMIS Classification** Health Hazard: 2  
Chronic health hazard: 0  
Flammability: 2  
Physical hazard: 0

**NFPA Rating** Health hazard: 2  
Fire hazard: 2  
Reactivity hazard: 0

**Potential Health Effects** Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin: May be harmful if absorbed through skin. Causes skin irritation. May cause allergic skin reaction.

Eyes: Causes serious eye irritation.  
Ingestion: May be harmful if swallowed.

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### Section 3. Composition/Information on Ingredients

#### Substances

**Formula** C<sub>9</sub>H<sub>9</sub>NS  
**CAS No.** 24277-44-9

**Formula Wt.** 163.24  
**EC No.**

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### Section 4. First Aid Measures

**General advice** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Eye Contact** Flush your eyes with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact** Wash with soap and plenty of water. Consult a physician.

**Inhalation** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### Section 5 . Firefighting Measures

**Flash Point** 66°C - closed cup.

**Extinguishing Media** For a small fire in its initial stage, use alcohol foam, dry chemical or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities of water applied as a mist or spray that floods the fire. A solid stream of water may be ineffective. Cool all affected containers with a solid mist or spray of water.

**Firefighting Procedures** Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.

**Unusual Fire Hazards** Carbon oxides, nitrogen oxides (NO<sub>x</sub>) and sulfur oxides.

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### Section 6. Accidental Release Measures

**Personal Precautions** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter the drains.

**Methods and materials for containment and cleanup** Contain spillage and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

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### Section 7. Handling and Storage

**Handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Recommended storage temperature +4°C.

**Hazardous Decomposition Products** Not available.

**Other Remarks** This product is moisture sensitive.

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## Section 8. Exposure Controls/Personal Protection

### Personal protective equipment

#### EXPOSURE CONTROLS

Contains no substances with occupational exposure limit values. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

#### PERSONAL PROTECTION

**Eye/face protection:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid.	<b>Color</b>	Pale yellow oil.
<b>Boiling Point</b>	121 °C at 13 hPa (10 mmHg)	<b>Volatility</b>	Not available.
<b>Melting Point</b>	Not available.	<b>Density</b>	Not available.
<b>Solubility</b>	Soluble in DMSO.	<b>pH</b>	Not available.
<b>Flash Point</b>	66 °C - closed cup.	<b>Ignition temperature</b>	Not available.
<b>Lower explosion limit</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Upper explosion limit</b>	Not available.	<b>Vapor pressure</b>	Not available.
<b>Water solubility</b>	Not available.	<b>Odor</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	Not available.	<b>Odor Threshold</b>	Not available.
<b>Relative vapor density</b>	1.082 g/cm3	<b>Evaporation rate</b>	Not available.

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## Section 10. Stability and Reactivity

<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials To Avoid</b>	Strong acids and strong bases.
<b>Hazardous Decomposition Products</b>	Not available.

**Possibility of hazardous reactions** Not available.

**Conditions to avoid** Heat, flames and sparks.

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## Section 11. Toxicological Information

**Oral LD50** Not available.

**Skin corrosion/irritation** Not available.

**Inhalation LC50** Not available.

**Serious eye damage/irritation** Not available.

**Dermal LD50** Not available.

**Respiratory or skin sensitization** Not available.

**Other information on acute toxicity** Not available.

**Germ cell mutagenicity** Not available.

**Reproductive Toxicity** Not available.

**Aspiration Hazard** Not available.

**Specific organ toxicity single exposure (GHS)** Inhalation - May cause respiratory irritation.

**Synergistic effects** Not available.

**Specific organ toxicity repeated exposure (GHS)** Not available.

**Additional Information** RTECS: Not available.

**Teratogenicity** Not available.

**Signs and symptoms of exposure** Cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting and a burning sensation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Potential Health Effects** Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin: May be harmful if absorbed through skin. Causes skin irritation. May cause allergic skin reaction.  
Eyes: Causes serious eye irritation.  
Ingestion: May be harmful if swallowed.

**Carcinogenicity** **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.  
**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  
**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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## Section 12. Ecological Information

**Toxicity** Not available.

**Mobility in soil** Not available.

**PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not

conducted.

**Persistence and degradability** Not available.

**Other adverse effects** Not available.

**Bioaccumulative potential** Not available.

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### Section 13. Disposal Considerations

**Waste Disposal** Dispose of material according to all federal, state and local regulations.  
Offer material to a licensed, professional waste disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product.

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### Section 14. Transport Information

**DOT (US)** UN number: 2922 Class: 8 (6.1) Packing Group: III  
Proper shipping name: Corrosive liquid, toxic, n.o.s. (Methylbenzyl isothiocyanate)

**IATA** Not dangerous goods.

**IMDG** Not dangerous goods.

#### Further Information

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### Section 15. Regulatory Information

**Reach No.**

**SARA 302 Components** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Components** Fire hazard, acute health hazard

**Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components** R(-)- $\alpha$ -Methylbenzyl isothiocyanate CAS #: 27277-44-9 Revision Date:

**New Jersey Right To Know Components** R(-)- $\alpha$ -Methylbenzyl isothiocyanate CAS #: 27277-44-9 Revision Date:

**California Prop 65 Components** This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

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### Section 16. Other Information

**Other information** The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

**Updated** 6/11/2020

For emergencies in the USA, call  
CHEMTREC 800-424-9300