

# MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

**PRODUCT NAME:** ACT R-260 Methyl Orange Special Indicator

**MSDS NUMBER:** 12/16/2001R260

**PRODUCT CODE:** Test Reagent

**MSDS DATE:** 12/16/2001

**KEY NUMBER:** R-260

**EMERGENCY PHONE #'s:** (800) 255-3924 (ChemTel)



**Advanced Chemical Technology LLC**

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<b>HEALTH</b>	<b>1</b>	Slightly Hazardous
<b>FIRE</b>	<b>3</b>	Flash Point: Below 100°F, 38°C
<b>REACTIVITY</b>	<b>0</b>	Stable
<b>SPECIFIC</b>	Flammable	

**1. IDENTIFICATION**

**See Addendum:** Ref. PAGE:

**Chemical Name:** Special Methyl Orange Indicator

**Chemical Family:** Test Reagent

**CAS #:** Mixture

**Chemical Formula:** Mixture

**CAS Name:** Mixture

**Molecular Weight:** Mixture

**Synonyms / Common Name:** Special Methyl Orange Indicator

**DOT Information:** DOT Class 3, Pack Group 3, Corrosive, DOT Proper Shipping Name: Flammable liquid, N.O.S.

**2. PHYSICAL DATA**

**See Addendum:** Ref. PAGE:

**Appearance:** Reddish-orange liquid

**Color:** Reddish-orange

**State:** Liquid

**Odor Characteristics:** Alcohol

**pH:** NA

**Viscosity:** ND

**Specific Gravity (Water = 1):** 0.785

**Vapor Density (Air = 1):** 2.07

**Vapor Pressure:** 33

**Melting Point:** ND

**Boiling Point:** 180 °F

**Flash Point:** <73 °F

**Freezing Point:** ND

**Percent Volatility:** ND

**Evaporation Rate (BAc = 1):** >1

**Solubility in Water:** Complete

**Solubility in Oil:** ND

**Solubility in Acetone:** ND

**3. INGREDIENTS - HAZARDOUS**

**See Addendum:** Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Bromocresol green	76-60-8	Bromocresol green	NE	
Isopropanol	67-63-0	Isopropanol	400	

**4. FIRE AND EXPLOSION HAZARD DATA**

**See Addendum:** Ref. PAGE:

**Flash Point:** <73 °F

**Flammable Limits in Air % by volume:** Lower 2.0%  
Upper 12.7%

**Extinguishing Media:** alcohol foam, carbon dioxide, dry chemical

**Special Fire Fighting Procedures:** Firefighters should have available self-contained breathing apparatus and full protective clothing

**Unusual Fire & Explosion Hazards:** Vapors may flow along surfaces to ignition sources and flash back. Closed containers exposed to heat may explode

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Web: <http://www.actglobal.net> Email: [act@actglobal.net](mailto:act@actglobal.net)**MATERIAL SAFETY DATA SHEET PAGE #: 2 OF 4****PRODUCT NAME:** ACT R-260 Methyl Orange Special Indicator**MSDS NUMBER:** 12/16/2001R260**MSDS DATE:** 12/16/2001**PRODUCT CODE:** Test Reagent**KEY NUMBER:** R-260**5. HEALTH HAZARD DATA** **See Addendum:****PAGE #:****Threshold Limit Value:** 400 ppm**Effects of Overexposure:****Inhalation:** Respiratory tract irritation, headaches, and vomiting**Skin Contact:** May cause irritation with prolonged contact**Eye Contact:** Irritation and possible eye damage**Ingestion:** Headaches, nausea, vomiting, diarrhea, cramps**Delayed Effects:** Prolonged exposure can cause central nervous system depression**Medical Conditions Aggravated by Exposure** Impaired respiratory function. Pre-existing eye and skin problems**6. FIRST AID MEASURES** **See Addendum:****PAGE #:****Inhalation:** Remove to fresh air, seek medical attention. If breathing stops, give artificial respiration. Call a physician immediately.**Skin Contact:** Flush with water for 5 minutes**Eye Contact:** Immediately flush with water for 15 minutes and obtain medical attention.**Ingestion:** Drink small amounts of water for dilution and obtain medical attention. Do not induce vomiting**NOTES TO PHYSICIAN:** None**7. REACTIVITY DATA** **See Addendum:****PAGE #:****Stability:** Stable**Incompatibility:** Strong oxidizers  
(materials to avoid)**Hazardous Combustion or  
Decomposition Products** ND**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** Do not mix with other industrial chemicals.**8. SPILL OR LEAK PROCEDURES** **See Addendum:****PAGE #:****Actions to take for  
Leaks & Spills** Remove all ignition sources. Ventilate enclosed areas. Collect free liquid. Soak up remaining spillage with sand or other absorbent. Place into chemical waste container for disposal. Flush spilled area with detergent and water**Waste Disposal Method:** Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.



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**9. SPECIAL PROTECTION INFORMATION**

See Addendum:

Ref. PAGE:

**Respiratory Protection:** Use organic vapor respirator if ventilation is inadequate

**Eye Protection:** Chemical goggles and face shield

**Skin Protection:** Rubber gloves

**Other Clothing:** Rubber apron and protective clothes

**Other Equipment:** Eye wash station

**Engineering Controls:** General mechanical ventilation recommended for enclosed areas

**10. HANDLING AND STORAGE**

See Addendum:

Ref. PAGE:

**Special Precautions:** Store in a cool protected location. Keep container closed when not in use. Keep away from children

**Other Precautions:** Clean up spills immediately. Do not reuse empty container

**11. REGULATORY INFORMATION**

See Addendum:

Ref. PAGE:

**Workplace Classification:** DOT Class 3, Pack Group II, UN 1219, Flammable liquid, N.O.S.

**12. TOXICOLOGICAL INFORMATION**

See Addendum:

Ref. PAGE:

**Acute Data:** ND

**Reproductive /  
Teratology Data** ND

**13. ECOLOGICAL INFORMATION**

See Addendum:

Ref. PAGE:

**Fate in the Environment:** ND

**14. DISPOSAL CONDITIONS**

See Addendum:

Ref. PAGE: 4

**Procedures:** Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.

**15. TRANSPORTATION INFORMATION**

See Addendum:

Ref. PAGE:

**DOT Classification:** DOT Class 3, Pack Group II, UN 1219, Flammable liquid, N.O.S.

**Warning Labels:** Flammable



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**ADDENDUM for Section - 14. DISPOSAL CONDITIONS - Ref. Pg. 3**

Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine whether a substance should be classified as a hazardous waste at the time of disposal. This is due to the fact that product use, transformation, synthesis, mixtures, etc. may change the nature of the product.

**ADDENDUM for Section - 11. REGULATORY INFORMATION - Ref. Pg. 3**

**SARA/TITLE III - SECTION 304 EMERGENCY NOTIFICATION REPORTING**

This product does not contain a Section 304 listed hazardous substance for emergency release notification

**SARA/TITLE III - SECTION 313 TOXIC CHEMICAL RELEASE REPORTING**

This product does not contain a Section 313 listed toxic chemical subject to release reporting requirements.

**TSCA INVENTORY STATUS**

All chemical components are listed on TSCA inventory

**CALIFORNIA PROPOSITION 65 STATUS**

This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

**ADDENDUM for Section - Other Information**

NA = Not Applicable  
ND = Not Determined  
NE = Not Established

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Advanced Chemical Technology, LLC makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly, Advanced Chemical Technology, LLC will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied or merchantability fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.