



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. OX 40  
Effective Date April 6, 1999

## SECTION V HEALTH HAZARD DATA

OX 40

### Threshold Limited Value

None established by (ACGIH 1992-93).  
No toxicity data available.

### Effects of Overexposure

May be harmful by inhalation, ingestion, or skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize opportunities for direct contact with the skin or eyes and to prevent inhalation of dust. Remove contaminated clothing.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** If the chemical touches the skin, such as the hands: Gently and thoroughly wash the contaminated area with soap and running water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. Get immediate medical attention symptoms develop or persist.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Protect from light, excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong oxidizing materials.
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Hazardous Decomposition Products	These products are carbon oxides, nitrogen oxides and some metallic oxides.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wash spill area well with soap and water.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
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Dispose of in an approved incinerator equipped with an afterburner and scrubber.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.		
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, apron, eye wash station, ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from oxidizing materials and protect from light. Keep away from heat and sources of ignition. Keep container tightly closed. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Do not get in eyes, on skin, on clothing. Avoid breathing dust. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 4/6/99	Approved Michael Raszeja	Chemical Safety Coordinator
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	ORANGE IV, pH INDICATOR
Chemical Synonyms	Tropaeolin OO, Acid Orange 5, C.I. No. 13080
Formula	C <sub>18</sub> H <sub>14</sub> N <sub>3</sub> NaO <sub>3</sub> S
Unit Size	up to 100 grams.
C.A.S. No.	554-73-4

1  
0

CHEMTREC  
800-424-9300  
Day 716-226-6177

NFPA  
HAZARD RATING

LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

Health 1  
Fire 1  
Reactivity 0

HMIS \*  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Orange IV, pH Indicator Powder	100%	None established.
WARNING! MAY BE HARMFUL BY INHALATION,		
INGESTION, OR SKIN ABSORPTION. MAY		
CAUSE EYE AND SKIN IRRITATION.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	375°C (707°F) dec.	Specific Gravity (H <sub>2</sub> O = 1)	Data not listed.
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (≈1)	Non-volatile (NA).
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble in cold water.		
Appearance & Odor	Yellow to tan crystalline powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Combustible.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media	Use DRY chemicals, CO <sub>2</sub> , water spray or foam.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react with oxidizing materials.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20