

DATE: 10/19/94  
INDEX: N/AACCT: 999706-01  
CAT NO: M29525

PO NBR: N/A

\*\*METHYL GREEN\*\*  
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## MATERIAL SAFETY DATA SHEET

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## SUBSTANCE IDENTIFICATION

SUBSTANCE: \*\*METHYL GREEN\*\*

## TRADE NAMES/SYNONYMS:

C.I. 42590; ETHYL GREEN; M-295;  
BENZENEAMINIUM, 4-((-(DIMETHYLAMINO)PHENYL)(4-DIMETHYLIMINIO)-2,5-CYCLOHEXADIEN-1-YLIDENE)METHYL-N-ETHYL-N,N-DIMETHYL-, BROMIDE CHLORIDE;  
4-((-(DIMETHYLAMINO)PHENYL)(4--DIMETHYLIMINIO)-2,5-CYCLOHEXADIEN-1-YLIDENE)METHYL-N-ETHYL-N,N-DIMETHYLBENZENEAMINIUM BROMIDE CHLORIDE;  
AMMONIUM, (ALPHA-(P-(DIMETHYLAMINO)PHENYL)-ALPHA-(4-(DIMETHYLIMINIO)-2,5-CYCLOHEXADIEN-1-YLIDENE)-P-TOLY)ETHYLDIMETHYL-, BROMIDE, CHLORIDE;  
(ALPHA-(P-(DIMETHYLAMINO)PHENYL)-ALPHA-(4-(DIMETHYLIMINIO)-2,5-CYCLOHEXADIEN-1-YLIDENE)-P-TOLY)ETHYLDIMETHYLAMMONIUM BROMIDE, CHLORIDE;  
(ALPHA-(P-(DIMETHYLAMINO)PHENYL)-ALPHA-(4-(METHYLIMINIO)-2,5-CYCLOHEXADIEN-1-YLIDENE)-P-TOLY)ETHYLDIMETHYLAMMONIUM BROMIDE, METHOCHLORIDE;  
C27H35BRCLN3; ACC80340

CHEMICAL FAMILY:  
Amine, alkyl-aryl

MOLECULAR FORMULA: C27-H35-BR-CL-N3

MOLECULAR WEIGHT: 516.96

CERCLA RATINGS (SCALE 0-3): HEALTH=U FIRE=1 REACTIVITY=0 PERSISTENCE=2  
NFPA RATINGS (SCALE 0-4): HEALTH=U FIRE=1 REACTIVITY=0

## COMPONENTS AND CONTAMINANTS

COMPONENT: METHYL GREEN PERCENT: 100

OTHER CONTAMINANTS: NONE

## EXPOSURE LIMITS:

No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

## PHYSICAL DATA

DESCRIPTION: Solid. MELTING POINT: not available

SOLUBILITY IN WATER: not available

## FIRE AND EXPLOSION DATA

## FIRE AND EXPLOSION HAZARD:

Slight fire hazard when exposed to heat or flame.

Dust-air mixtures may ignite or explode.

## FIREFIGHTING MEDIA:

Dry chemical, carbon dioxide, water spray or regular foam (1993 Emergency Response Guidebook, RSPA P 5800.6).

For larger fires, use water spray, fog or regular foam (1993 Emergency Response Guidebook, RSPA P 5800.6).

## FIREFIGHTING:

Move container from fire area if you can do it without risk. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal (1993 Emergency Response Guidebook, RSPA P 5800.6, Guide Page 31).

DATE: 10/19/94  
INDEX: N/AACCT: 999706-01  
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Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

## TOXICITY

## CARCINOGEN STATUS: None.

The toxicity of Methyl Green has not been quantified. Avoid breathing dust.

## HEALTH EFFECTS AND FIRST AID

## INHALATION:

ACUTE EXPOSURE- No data available.  
CHRONIC EXPOSURE- No data available.

FIRST AID- Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

## SKIN CONTACT:

ACUTE EXPOSURE- No data available.  
CHRONIC EXPOSURE- No data available.

FIRST AID- Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

## EYE CONTACT:

ACUTE EXPOSURE- May cause irritation. No effects reported in humans.  
CHRONIC EXPOSURE- No data available.

FIRST AID- Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

## INGESTION:

ACUTE EXPOSURE- No data available.  
CHRONIC EXPOSURE- No data available.

FIRST AID- When this chemical has been swallowed and person is conscious, immediately give person large amounts of water. After water has been swallowed, try to get the victim to vomit by having him to touch the back of his throat with his finger. Do not make an unconscious person vomit. Get medical attention immediately.

## ANTIDOTE:

No specific antidote. Treat symptomatically and supportively.

## REACTIVITY

## REACTIVITY:

Stable under normal temperatures and pressures.

## INCOMPATIBILITIES:

None known.

## DECOMPOSITION:

May release toxic and hazardous bromides, chlorides, and nitrous oxides under thermal decomposition.

## POLYMERIZATION:

Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

## STORAGE AND DISPOSAL

Observe all federal, state and local regulations when storing or disposing of this substance.

## CONDITIONS TO AVOID

May burn but does not ignite readily. Avoid contact with strong oxidizers, excessive heat, sparks, or open flame.

## SPILL AND LEAK PROCEDURES

## OCCUPATIONAL SPILL:

Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Do not flush spilled material into sewer. Keep unnecessary people away.

## PROTECTIVE EQUIPMENT

DATE: 10/19/94

ACCT: 999706-01

PAGE: 3

INDEX: N/A

CAT NO: M29525

PO NBR: N/A

**VENTILATION:**

Provide local exhaust or general dilution ventilation system.

**RESPIRATOR:**

The following respirators are recommended based on information found in the physical data, toxicity and health effects sections. They are ranked in order from minimum to maximum respiratory protection.

The specific respirator selected must be based on contamination levels found in the work place, must be based on the specific operation, must not exceed the working limits of the respirator and must be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

Any dust and mist respirator with a full facepiece.

Any air-purifying full facepiece respirator with a high-efficiency particulate filter.

Any powered air-purifying respirator with a tight-fitting facepiece and high-efficiency particulate filter.

Any type 'C' supplied-air respirator with a full facepiece operated in pressure-demand or other positive pressure mode or with a full facepiece, helmet or hood operated in continuous-flow mode.

Any self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode.

**FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:**

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

**CLOTHING:**

Protective clothing not required. Avoid repeated or prolonged contact with this substance.

**GLOVES:**

Employee must wear appropriate protective gloves to prevent contact with this substance.

**EYE PROTECTION:**

Employee must wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.

AUTHORIZED - FISHER SCIENTIFIC, INC.

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REVISION DATE: 08/06/94

**-ADDITIONAL INFORMATION-**

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