

# Part of Thermo Fisher Scientific

## SAFETY DATA SHEET

Creation Date 08-May-1998 Revision Date 10-Feb-2015 Revision Number 1

#### 1. Identification

Product Name Methyl green

Cat No.: M295-25

Synonyms CI 42585; C.I. Green

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Emergency Telephone Number

Fisher Scientific CHEMTREC®, Inside the USA: 800-424-9300
One Reagent Lane CHEMTREC®, Outside the USA: 001-703-527-3887

Fair Lawn, NJ 07410 Tel: (201) 796-7100

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 1

Category 1

Category 3

Target Organs - Respiratory system.

### **Label Elements**

#### Signal Word

Danger

### **Hazard Statements**

Harmful if swallowed Causes severe skin burns and eye damage May cause respiratory irritation



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#### **Precautionary Statements**

#### Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

#### Response

Call a POISON CENTER or doctor/physician if you feel unwell

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Immediately call a POISON CENTER or doctor/physician

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

### Ingestion

Rinse mouth

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

#### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

## 3. Composition / information on ingredients

Component	CAS-No	Weight %
4-[[4-(Dimethylamino)phenyl][4-(dimethyliminio)cycl	7114-03-6	>95
ohexa-2,5-dien-1-ylidene]methyl]-N-ethyl-N,N-dimet		
hylanilinium bromide chloride, compound with zinc		
chloride		

#### 4. First-aid measures

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects Causes burns by all exposure routes. Product is a corrosive material. Use of gastric

lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue

and danger of perforation

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

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Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). Dry chemical, chemical foam.

**Unsuitable Extinguishing Media** No information available

**Flash Point** Not applicable

Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available No data available Lower Sensitivity to Mechanical Impact No information available **Sensitivity to Static Discharge** No information available

#### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Hydrogen chloride gas Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2) Chlorine

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Instability Health **Flammability** Physical hazards N/A 3 0 0

## Accidental release measures

**Personal Precautions** 

Ensure adequate ventilation. Use personal protective equipment.

**Environmental Precautions** See Section 12 for additional ecological information. Avoid release to the environment.

Collect spillage.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let Up

this chemical enter the environment.

## 7. Handling and storage

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, Handling

eyes and clothing. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives

## 8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines** 

established by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations **Engineering Measures** 

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

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Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Physical StateSolidAppearanceGreenOdorOdorless

Odor ThresholdNo information availablepHNo data availableMelting Point/Range233 °C / 451.4 °F

Melting Point/Range233 °C / 451.4 °FBoiling Point/RangeNo information availableFlash PointNot applicable

Evaporation Rate negligible

Flammability (solid,gas)

No information available Flammability or explosive limits

Upper No data available
Lower No data available

Vapor PressurenegligibleVapor DensityNo information available

Relative Density
Solubility
No information available
Soluble in water
Partition coefficient; n-octanol/water
No data available

Partition coefficient; n-octanol/water

Autoignition Temperature

No information available

No information available

Decomposition TemperatureNo information availableViscosityNo information availableMolecular FormulaC27 H35 Br Cl N3 . x Zn Cl2

Molecular Weight 653.23

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Hydrogen chloride gas, Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide

(CO<sub>2</sub>), Chlorine

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information**No acute toxicity information is available for this product

Component Information

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes burns by all exposure routes

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Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
4-[[4-(Dimethylamino)p henyl][4-(dimethylimini o)cyclohexa-2,5-dien-1 -ylidene]methyl]-N-eth yl-N,N-dimethylaniliniu m bromide chloride, compound with zinc chloride		Not listed				

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

No information available. **Developmental Effects** 

No information available. **Teratogenicity** 

STOT - single exposure Respiratory system

STOT - repeated exposure None known

No information available **Aspiration hazard** 

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes

severe swelling, severe damage to the delicate tissue and danger of perforation

**Endocrine Disruptor Information** No information available

The toxicological properties have not been fully investigated. Other Adverse Effects

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Persistence and Degradability **Bioaccumulation/ Accumulation**  No information available No information available.

No information available. **Mobility** 

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated

Not regulated TDG Not regulated IATA IMDG/IMO Not regulated

# 15. Regulatory information

## International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
4-[[4-(Dimethylamino)phenyl][	-	-	-	230-415-4	-		-	-	-	-	-

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4-(dimethyliminio)cyclohexa- 2,5-dien-1-ylidene]methyl]-N-						
ethyl-N,N-dimethylanilinium						
bromide chloride, compound with zinc chloride						

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

**TSCA 12(b)** 

Not applicable

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
4-[[4-(Dimethylamino)phenyl][4-(dimethyliminio)cycl ohexa-2,5-dien-1-ylidene]methyl]-N-ethyl-N,N-dimet hylanilinium bromide chloride, compound with zinc		>95	1.0
chloride			

## SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### **Clean Water Act**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
4-[[4-(Dimethylamino)phenyl][4-(dimethyliminio)cyclohexa-2,5-di en-1-ylidene]methyl]-N-ethyl-N, N-dimethylanilinium bromide chloride, compound with zinc chloride		-	Х	-

## Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

#### **CERCLA**

Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island

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4-[[4-(Dimethylamino)phe nyl][4-(dimethyliminio)cyc	Х	Х	-	-
lohexa-2,5-dien-1-ylidene ]methyl]-N-ethyl-N,N-dim ethylanilinium bromide				
chloride, compound with zinc chloride				

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

## **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D1B Toxic materials

E Corrosive material



## 16. Other information

Prepared By Regulatory Affairs

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

## **End of SDS**