

## SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 17-Jan-2018

**Revision Number** 3

# 1. Identification Product Name Methyl Orange

M216-25, M216-500

Cat No. :

CAS-No Synonyms 547-58-0 Acid Orange 52; C.I. 13025; Helianthise; MO; 4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid, sodium salt

Recommended Use	
Uses advised against	

Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

#### <u>Company</u>

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

#### **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

## 2. Hazard(s) identification

#### Classification

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

Acute oral toxicity

Category 3

Label Elements

Signal Word Danger

Hazard Statements Toxic if swallowed



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
C.I. Acid orange 52	547-58-0	>95

4. First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.				
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention.				
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.				
Most important symptoms and effects	No information available.				
Notes to Physician	Treat symptomatically				

	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits Upper	No data available
Lower Sonsitivity to Mochanical Impa	No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) **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.

<u>NFPA</u> Health 3	Flammability 1	<b>Instability</b> 0	Physical hazards N/A					
	6. Accidental relea	se measures						
Personal Precautions	Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formatio Avoid contact with skin, eyes and clothing.							
Environmental Precautions	Avoid release to the environme		nal ecological information.					
Methods for Containment and Clea Up	an Sweep up or vacuum up spillag formation.	e and collect in suitable conta	iner for disposal. Avoid dust					
	7. Handling and	l storage						
Handling	Wear personal protective equip Avoid contact with skin, eyes ar							
Storage	Keep containers tightly closed in	n a dry, cool and well-ventilate	ed place.					
8. E	xposure controls / pe	ersonal protection						
Exposure Guidelines	This product does not contain a limitsestablished by the region s		occupational exposure					
Engineering Measures	Ensure adequate ventilation, es and safety showers are close to		sure that eyewash stations					
Personal Protective Equipment								
Eye/face Protection	Wear appropriate protective eye OSHA's eye and face protection EN166.							
Skin and body protection	Wear appropriate protective glo	ves and clothing to prevent sł	kin exposure.					
Respiratory Protection	Follow the OSHA respirator reg EN 149. Use a NIOSH/MSHA o exposure limits are exceeded o	r European Standard EN 149	approved respirator if					
Hygiene Measures	Handle in accordance with good	l industrial hygiene and safety	/ practice.					

9. Physical and chemical properties						
Physical State	Powder Solid					
Appearance	Orange					
Odor	Odorless					
Odor Threshold	No information available					
рН	No information available					
Melting Point/Range	> 300 °C / 572 °F					
Boiling Point/Range	No information available					
Flash Point	No information available					
vaporation Rate Not applicable						
lammability (solid,gas) No information available						
Flammability or explosive limits						
Upper	No data available					

Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight No data available No information available Not applicable No information available Soluble in hot water No data available No information available Not applicable C14 H14 N3 Na O3 S 327.32

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.			
Incompatible Materials	Strong oxidizing agents			
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			

11. Toxicological information

#### Acute Toxicity

## Product Information

Component Informa	tion							
Componen	t	LD50 Oral		LD50 Dermal	LC50	Inhalation		
C.I. Acid orang	e 52	LD50 = 60 mg/kg (Ra	LD50 = 60 mg/kg (Rat) Not listed Not list		ot listed			
Toxicologically Syn Products Delayed and immed	•	No information ava		d long-term exposur	.e			
Irritation		No information ava			_			
Sensitization		No information ava	ailable					
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a carcinog					
Component	CAS-N	o IARC	IARC NTP ACGIH		OSHA Mexico			
C.I. Acid orange 52	547-58-	0 Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effect	S	No information ava	No information available.					
Developmental Effe	cts	No information ava	No information available.					
Teratogenicity		No information ava	No information available.					
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information ava	No information available					

Symptoms / effects,both acute and delayed	No information available					
Endocrine Disruptor Information	No information available					
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS f complete information.					
	12. Ecological information					
<u>Ecotoxicity</u> Do not empty into drains.						
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.					
<b>Bioaccumulation/ Accumulation</b>	No information available.					
Mobility	Will likely be mobile in the environment due to its water solubility.					
	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						
UN-No Proper Shipping Name	UN3143 DYES, SOLID, TOXIC, N.O.S.					
Proper technical name	C.I. Acid orange 52					
Hazard Class	6.1					
Packing Group	III					
TDG						
UN-No Proper Shipping Name	UN3143 DYE, SOLID, TOXIC, N.O.S.					
Proper technical name	(METHYL ORANGE)					
Hazard Class	6.1					
Packing Group	III					
<u>IATA</u>						
UN-No Drange Skinning Norma						
Proper Shipping Name Hazard Class	DYE, SOLID, TOXIC, N.O.S. 6.1					
Packing Group						
IMDG/IMO						
UN-No	UN3143					
Proper Shipping Name	DYE, SOLID, TOXIC, N.O.S.					
Hazard Class	6.1 III					
Packing Group						
	15. Regulatory information					

All of the components in the product are on the following Inventory lists: Australia Complete Regulatory Information contained in following SDS's X = listed China Canada The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Europe TSCA Korea Philippines Japan U.S.A. (TSCA) Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) Korea (ECL) China (IECSC) Japan (ENCS) Philippines (PICCS)

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL

C.I. Acid orange 52	Х	Х	-	208-925-3	-	Х	Х	Х	Х	Х
L a manual.										

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	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> Occupational Safety and Healt Not applicable	h Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

#### U.S. Department of Transportation

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

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

This product does not contain any DHS chemicals.

#### Other International Regulations

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Mexico - Grade
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No information available

16. Other information	
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	24-Nov-2010
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Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard

Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

