

SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 24-May-2017

Revision Number 2

1. Identification **Product Name Methyl Orange** M216-25, M216-500 Cat No. : Synonyms Acid Orange 52; C.I. 13025; Helianthise; MO; 4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid, sodium salt **Recommended Use** Laboratory chemicals. Uses advised against Not for food, drug, pesticide or biocidal product use Details of the supplier of the safety data sheet **Company 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 <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %			
C.I. Acid orange 52	547-58-0	>95			
4. First-aid measures					
	4. Flist-alu measures)			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain 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/effects Notes to Physician	No information available. Treat symptomatically				
	5. Fire-fighting measure	es			
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 Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge					

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 (CO₂)

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.

NFPA Health 3	Flammability	Instability 0	Physical hazards N/A			
	6. Accidental rel	ease measures				
Personal Precautions		ipment. Ensure adequate vent	tilation. Avoid dust formation.			
Environmental Precautions	Avoid contact with skin, eyes and clothing. Avoid release to the environment. See Section 12 for additional ecological information.					
Methods for Containment and Cle Up	an Sweep up or vacuum up sp formation.	illage and collect in suitable co	ntainer for disposal. Avoid dust			
	7. Handling a	and storage				
Handling		quipment. Ensure adequate ve s and clothing. Do not breathe				
Storage	Keep containers tightly clos	ed in a dry, cool and well-venti	lated place.			
8. E	Exposure controls /	personal protection	on			
Exposure Guidelines		in any hazardous materials wit on specific regulatory bodies.	th occupational exposure			
Engineering Measures		a, especially in confined areas. se to the workstation location.	Ensure that eyewash stations			
Personal Protective Equipment						
Eye/face Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 19				
Skin and body protection	Wear appropriate protective	gloves and clothing to preven	t skin exposure.			
Respiratory Protection	EN 149. Use a NIOSH/MSH	regulations found in 29 CFR 1 IA or European Standard EN 1 ed or if irritation or other sympto				
Hygiene Measures	Handle in accordance with g	good industrial hygiene and sa	fety practice.			
	9. Physical and che	emical properties				
Dhucical State		lowdor Solid				

9. Phy	sical	and	chemi	ical	properties
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		(
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	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	

Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight

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 Information							
Component	LD50 Oral		LD50 Dermal	LC50 li	nhalation		
C.I. Acid orange 52	LD50 = 60 mg/kg (Ra	60 mg/kg (Rat) Not listed		Not	listed		
oxicologically Synergistic	No information ava	ailable		I			
elayed and immediate effects a	as well as chronic effe	cts from short an	d long-term expo	osure			
ritation	No information ava	ailable					
Sensitization	No information ava	ailable					
Carcinogenicity	The table below in	dicates whether ea	ach agency has lis	ted any ingredient a	s a carcinogen		
Component CAS-No	IARC	NTP	NTP ACGIH		Mexico		
C.I. Acid orange 52 547-58-0	Not listed	Not listed	Not listed	Not listed	Not listed		
Autagenic Effects Reproductive Effects Developmental Effects	No information ava	No information available No information available. No information available.					
Feratogenicity	No information ava	ailable.					
STOT - single exposure STOT - repeated exposure	None known None known						
Aspiration hazard	No information ava	No information available					
Symptoms / effects,both acute lelayed	and No information ava	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 for complete information.				
	12. Ecological information				
Ecotoxicity Do not empty into drains.					
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ Accumulation	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 Proper technical name Hazard Class Packing Group TDG UN-No Proper Shipping Name Hazard Class Packing Group IATA UN-No Proper Shipping Name Hazard Class Packing Group IMDG/IMO UN-No Proper Shipping Name Hazard Class Packing Group	UN3143 DYES, SOLID, TOXIC, N.O.S. C.I. Acid orange 52 6.1 III UN3143 DYE, SOLID, TOXIC, N.O.S. (METHYL ORANGE) 6.1 III UN3143 DYE, SOLID, TOXIC, N.O.S. 6.1 III UN3143 DYE, SOLID, TOXIC, N.O.S. 6.1				
	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
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 Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	Yes No No zard No No
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA Occupational Safety and Health 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): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Secu This product does not contain any DH	
Other International Regulations	
Mexico - Grade	No information available
	16. Other information

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date	24-Nov-2010 24-May-2017

Print Date Revision Summary 24-May-2017

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 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

End of SDS