

SAFETY DATA SHEET

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

Creation Date 11-Mar-2010	Revision Date 16-May-2014	4 Revision Number 1		
	1. Identification			
Product Name	Toluidine Blue O			
Cat No. :	AC348600000; AC348600050; A	AC348600000; AC348600050; AC348600250; AC348601000		
Synonyms	Basic Blue 17; C.I. 52040; Tolonium chl	Basic Blue 17; C.I. 52040; Tolonium chloride		
Recommended Use	Laboratory chemicals.			
Uses advised against Details of the supplier of the safe	No Information available afety data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99		

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 4

Label Elements

Signal Word Warning

Hazard Statements

Harmful 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: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition /	information of	on ingredients
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Component	CAS-No	Weight %
Phenothiazin-5-ium,	92-31-9	>95
3-amino-7-(dimethylamino)-2-methyl-, chloride		

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.	
Skin Contact	Rinse with plenty of water. Get medical attention if symptoms occur.	
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a 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 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	No information available	
Upper	No data available	
Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available t No information available 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

None known

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 2	Flammability 1	Instability 0	Physical hazards N/A
6. Accidental release measures			
Personal Precautions Environmental Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. Avoid release to the environment.		

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Up formation.		
	7. Handling and storage	
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.	
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.	
8. E	Exposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by 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.	
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 State	Solid	
Appearance	Dark green	
Odor	Odorless	
Odor Threshold	No information available	
рН	No information available	
Melting Point/Range	No data available	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	negligible	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	negligible	
Vapor Density	No information available	
Relative Density	No information available	
Solubility	Soluble in water	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	No information available	
Decomposition temperature	No information available	
Viscosity	No information available	
Molecular Formula	C15 H16 CI N3 S	
Molecular Weight	305.82	

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 Materi	als	Strong oxidizing agents				
Hazardous Decomp	osition Product	s None under norma	al use conditions			
Hazardous Polymer	ization	Hazardous polyme	Hazardous polymerization does not occur.			
Hazardous Reactior	IS	None under norma	None under normal processing.			
	11. Toxicological information					
Acute Toxicity						
Component Information Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation		No information available				
Sensitization		No information available				
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Phenothiazin-5-ium, 3-amino-7-(dimethyla mino)-2-methyl-, chloride	92-31-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effects No information available.						
Developmental Effects No information available.						

Teratogenicity No information available.

STOT - single exposure	None known		
STOT - repeated exposure	None known		
Aspiration hazard	No information available		

Symptoms / effects,	No information available

Endocrine Disruptor Information No information available

See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity No information available.					
Persistence and Degradability	No information available				
Bioaccumulation/ Accumulation	No information available.				
Mobility	No information available.				
	13. Disposal considerations				

Waste Disposal Methods

both acute and delayed

Other Adverse Effects

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	
DOT TDG IATA	Not regulated	
ΙΑΤΑ	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Phenothiazin-5-ium,	Х	Х	-	202-146-2	-		Х	-	Х	Х	Х
3-amino-7-(dimethylamino)-2-											
methyl-, 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	Not applicable
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SARA 311/312 Hazardous Categoriz Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard	zard	Yes No No No No
Clean Water Act	Not applicable	

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
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State Right-to-Know 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

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

Regulatory Affairs

Thermo Fisher Scientific



16. Other information

Prepared By

Creation Date Revision Date Print Date Revision Summary Email: EMSDS.RA@thermofisher.com 11-Mar-2010 16-May-2014 16-May-2014 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