

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
Consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List) **Solder Mask Water Soluble 515°** *Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

Section I	
Manufacturer's Name Metron Optics, Inc.	Emergency Telephone Number 858-755-4477
Address (Number, Street, 819 Academy Drive Solana Beach, CA - USA	Emergency Telephone Number Date Prepared (mm-dd-yy) January, 2012— RevA
Signature of Preparer (Optional)	

SECTION II —Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH-TLV	Other Limits (Recommended)	% (Optional)
	CAS#	Wt. % Range:		
Deionized water	7732-18-5	40.0—50.0		
Acrylic Polymer	Mixture	25.0—30.0		
Aluminum Silicate	8031-18-3	5.0—10.0		
Glycerin	56-81-5	1.0—5.0		
Isopropanol	67-63-0	1.0—5.0		
Titanium dioxide	13463-67-7	0.1—1.0		
Carboxylic acid	Proprietary	10.0 —15.0		

SECTION III —Physical/Chemical Characteristics

Boiling Point 200° F	Specific Gravity (H ₂ O = 1) 1.00
Vapor Pressure (mm Hg.) 12 mm Hg @ 20° C	Melting Point N/A
Vapor Density (AIR = 1) <1	Evaporation Rate (Butyl Alcohol = 1) >1
Solubility in Water Dispersible	
Appearance and Odor Viscous, opaque blue liquid with mild ammoniacal odor.	

SECTION IV—Fire and Explosion Hazard Data

Flash Point (Method Used) None to boiling (TCC)	Flammable Limits	LEL Not Established	UEL Not Established
Extinguishing Media Use Alcohol foam, carbon dioxide or water spray when fighting fire involving this material.			
Special Fire Fighting Procedures As in any Fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.			
Unusual Fire and Explosion Hazards Spills : Shut off leak. Absorb spill with inert material (Dry sand or earth)			
Then place in a chemical waste container for proper disposal.			

SECTION V—Reactivity Data			
Stability	Unstable		Conditions to Avoid
	Stable	X	Do not spray near open flames, red hot surfaces or other sources of ignition
Incompatibility (Materials to Avoid) Do not mix with powdered alkali and alkaline earth metals or strong oxidizing agents			
Hazardous Decomposition or Byproducts Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur	X	N/A
SECTION VI —Health Hazard Data			
Route(s) of Entry:		<u>Inhalation</u>	<u>Ingestion</u>
Isopropyl Alcohol		LC50/rats ; 16,000ppm/8hrs	LD50/rats ; 5,045 mg/kg
Health Hazards Eyes: Liquid and vapor of this product are irritating. Skin: contact causes skin irritation. Ingestion: Harmful is swallowed. Irritating to mouth, throat and stomach. May cause vomiting. Inhalation: Harmful if inhaled. High concentrations of vapors in immediate area can displace oxygen and can cause dizziness unconsciousness and even death with longer exposure. KEEP PEOPLE AWAY FROM VAPORS W/O SELF-CONTAINED BREATHING APPARATUS.			
Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?			
No ingredients listed as human carcinogens by NTP or IARC.			
Signs and Symptoms of Exposure Irritation, dizziness, nausea. GET MEDICAL ATTENTION			
Medical Conditions Generally Aggravated by Exposure None Known.			
Emergency and First Aid Procedures Eyes: Flush with plenty of water. Skin: Wash skin with soap and water. Ingestion: Induce vomiting, keep head below knees. Inhalation: Remove to fresh air: GET MEDICAL ATTENTION			
SECTION VII —Precautions for Safe Handling and Use			
Step to Be Taken in Case Material is Released or Spilled Spills: Shut off leak (large spills), absorb spill with inert material (Dry sand or earth).			
Waste Disposal Method Place in a chemical waste container for proper disposal.			
Precautions to Be Taken in Handling and Storing Avoid prolonged or repeated contact with eyes, skin and clothing. Use with adequate ventilation.			
Other Precautions			
SECTION VIII —Control Measures			
Respiratory Protection (Specify Type)			
Ventilation	Local Exhaust		Special
	Mechanical (General)		Other
Protective Gloves		Eye Protection	
Other Protective Clothing or Equipment			
Work/Hygienic Practices Wash hands before eating			