

Safety Data Sheet

1. Identification

Product identifier

MI-GLOW® 778

Other means of identificationNot available.Recommended useNon-destructive testing.Recommended restrictionsNone known.Manufacturer / Importer / Supplier / Distributor information

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (fertility, the unborn child)	Category 1B
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Causes serious eye irritation. May damage f	ertility or the unborn child.
Precautionary statement		
Prevention	and understood. Wash thoroughly after hand	ot handle until all safety precautions have been read dling. Wear protective gloves/protective clothing/eye
	protection/face protection.	
Response	If exposed or concerned: Get medical advice	present and easy to do. Continue rinsing. If eye
Response Storage	If exposed or concerned: Get medical advice several minutes. Remove contact lenses, if p	present and easy to do. Continue rinsing. If eye
	If exposed or concerned: Get medical advice several minutes. Remove contact lenses, if p irritation persists: Get medical advice/attention Store locked up.	

3. Composition/information on ingredients

Nixtures			
Chemical name	CAS number	%	
Boric acid	10043-35-3	< 35	
Iron Oxide	1317-61-9	< 5	
Butendioic acid, sulfo-1,4-bis(2-ethylhexyl) ester sodium salt	577-11-7	< 3	

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4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Irritation of eyes and mucous membranes.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention.

5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	None known.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.	
6. Accidental release mea	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch or walk through spilled material. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.	
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.	
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Avoid breathing mist/vapors/spray. Use with adequate ventilation. Observe good industrial hygiene practices.	
Conditions for safe storage,	Keep container tightly closed. Store in a cool and well-ventilated place. Store away from	

including any incompatibilities incompatible materials (see Section 10 of the MSDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Biological limit values	No biological exposure limits noted fo	r the ingredient(s).	

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Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear protective gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Dark green.
Odor	Detergent like.
Odor threshold	Not available.
рН	8 - 9
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not applicable
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.3 (68 °F (20 °C))
Solubility(ies)	Soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information VOC (Weight %)	Not applicable

10. Stability and reactivity Reactivity	The product is stable and non-reactive under normal condition	is of use, storage and transport.
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Contact with incompatible materials.	
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11. Toxicological information	tion		
Information on likely routes of e	xposure		
Ingestion	Expected to be a low ingestion hazard.		
Inhalation	May cause irritation to the respiratory system.		
Skin contact	May cause skin irritation.		
Eye contact	Causes eye irritation.		
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes and mucous membranes.		
Information on toxicological effe	ects		
Acute toxicity			
Components	Species	Test Results	
Boric acid (CAS 10043-35-3)			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Oral	Det		
LD50	Rat	2660 mg/kg	
	nylhexyl) ester sodium salt (CAS 577-11-7)		
Acute Oral			
LD50	Mouse	2.64 g/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritati		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory sensitization	No data available.		
Skin sensitization	No data available.		
Germ cell mutagenicity	No data available.		
Carcinogenicity	This product is not considered to be a carcinogen by	y IARC, ACGIH, NTP, or OSHA.	
Reproductive toxicity	May damage fertility or the unborn child.		
Specific target organ toxicity - single exposure	No data available.		
Specific target organ toxicity - repeated exposure	No data available.		
Aspiration hazard	No data available.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological information	1		
Eastaviaity	The product is not closeified as environmentally has		

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environmer		
Components		Species	Test Results
Boric acid (CAS 10043-35-3))		
Aquatic			
Fish	LC50	Razorback sucker (Xyrauchen texanus)	> 100 mg/l, 96 hours
Butendioic acid, sulfo-1,4-bis	s(2-ethylhexyl) e	ester sodium salt (CAS 577-11-7)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	20 - 40 mg/l, 96 hours
Persistence and degradability	No data is av	vailable on the degradability of this product.	
Bioaccumulative potential	No data avai	ilable for this product.	
Mobility in soil	Not available	2.	

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No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.	

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

ΙΑΤΑ

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and This substance/mixture is not intended to be transported in bulk.

the IBC Code

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)		
Not regulated.			
US. OSHA Specifically Regu	ılated Substances (29 CFR 1910.1001-1050)		
Not listed.			
CERCLA Hazardous Substa	nce List (40 CFR 302.4)		
Not listed.			
Superfund Amendments and Re	authorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	No		
SARA 311/312 Hazardous chemical	Yes		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)		
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
Food and Drug Administration (FDA)	Not regulated.		
US state regulations			
US. Massachusetts RTK - S	ubstance List		
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US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Formaldehyde (CAS 50-00-0)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision		
Issue date	29-October-2013	
Revision date	-	
Version #	01	
NFPA Ratings		
List of abbreviations	LC50: Lethal Concentration, 50%. LD50: Lethal Dose, 50%. TWA: Time weighted average.	
References	HSDB® - Hazardous Substances Data Bank	
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