

SAFETY DATA SHEET

1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Trade Name	HgCS102 (Mercury Cleaning Solution)
Vendor Name	M ² Polymer Technologies, Inc. P.O. Box 365 West Dundee, IL 60118
Telephone Numbers	
24 Hour Emergency Assistance	847-226-5295
General Assistance	847-836-1393
Email:	info@m2polymer.com
Product Class	Blended cleaning compound for Mercury removal
Date Prepared:	November 17, /2015

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS Number	OSHA PEL	ACGIH	TLV
Nitrilotriacetic Acid	139-13-9			
Sodium Metasilicate	6834-92-0	2 mg/m ³		2 mg/m ³
Monoethanolamine	141-43-5	3 mg/m ³		
Ethylene Glycol	111-76-2	25 mg/m ³		
Nonylphenol Ethoxylate	684-39-463			
Sodium Xylene Sulfonate	1300-72-7	10 mg/m ³		
Water				

3 HAZARDS IDENTIFICATION

Emergency Overview:

Caution

May cause irritation to the eyes, skin and respiratory system.

Health Effects: Eyes: May cause discomfort.

Health Effects: Skin: Concentrate will dry out and chap sensitive skin as would detergent. Dryness, redness, and chapping may occur.

Health Effects: Inhalation: Inhalation of high concentration of vapors may upset stomach and cause slight irritation of the respiratory tract.

Health effects: Ingestion: Ingestion may produce gastrointestinal disturbances including irritation, nausea and diarrhea. Ingestion of large amounts may result in serious damage to gastrointestinal tract. DO NOT INDUCE VOMITING.

4 FIRST AID MEASURES

Eyes:

Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.

Skin:

For skin contact flush with large amounts of water while removing contaminated clothing and shoes. If irritation develops get medical attention.

Inhalation:

If symptoms are experienced remove to fresh air. If symptoms persist get medical attention. If the affected person is not breathing apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting, and get immediate medical attention.

5 FIRE FIGHTING MEASURES

Flash Point:	None
Extinguishing Media:	N/A
Decomposition Products:	Oxides of carbon
UEL:	N/A
LEL:	N/A

Unusual fire and explosion hazards:

Containers may explode from internal pressure if confined to fire. Cool with water.

Fire fighting equipment:

Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus and full protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures:

If material is spilled, stop leak and/or remove leaking package to safe area. Flush with water. Use any approved method for dilute cleaner. Surfactants are highly biodegradable. Dispose of in accordance with applicable regulations.

7 HANDLING AND STORAGE

Handling Procedures:

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and prompt removal of material from eyes, skin and clothing.

Storage Procedures:

Store away from acids, alkalis, and oxidizers.

Precautionary Measures:

Use with adequate ventilation. Avoid breathing high concentrations of vapors. Do not get in eyes, on skin or clothing. Wash thoroughly after handling.

8 EXPOSURE CONTROLS

General Considerations:

Consider the potential hazards of this material, applicable exposure limits, job activities and work place conditions when designing engineering controls and selecting personal protective equipment.

Personal Protective Equipment: Eyes/Face

Wear safety glasses or chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin

Wear suitable protective clothing. Use impervious gloves made of rubber, PVC, or neoprene to avoid contact with skin.

Personal Protective Equipment: Respiratory

None required under normal conditions of use. If high concentrations of vapors or mists are encountered use a NIOSH approved vapor respirator. Consult the manufacturer to determine appropriate type of equipment for a given application.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

Ventilation:

Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see section 2). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust system.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Yellow liquid with medium viscosity and citrus odor
Flash Point	None
Specific Gravity	1.06
Vapor Pressure	Same as water
Vapor Density (Air = 1)	>1
Evaporation Rate (water = 1)	<1
Boiling Point	212°F
Solubility in water	Complete
pH	10.5

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility:	Strong acids or alkalis, oxidizers or oxidizing materials
Conditions to avoid:	None known

11 TOXICOLOGICAL INFORMATION

Carcinogenicity: Nitrilotriacetic Acid – IARC – 2B
NTP - 2

No other components have been identified as carcinogen by NTP, IARC or OSHA.

12 ECOLOGICAL INFORMATION

No data available for this product

13 DISPOSAL CONSIDERATIONS:

Follow all Federal, State, and Local regulations.

14 TRANSPORTATION INFORMATION:

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate regulations to properly classify your shipment for transportation.

Proper Shipping Name: Non-hazardous cleaning compound, liquid, non-regulated by 49CFR.

Reportable Quantity:	None
Hazard Class and Label:	None
UN Number:	None
NA Number:	None
ERG:	None

15 REGULATORY INFORMATION

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA):

The following components of this product are specifically listed as hazardous substances in 40 CFR 302.4 and are present at levels which could require reporting:

<u>Component</u>	<u>CAS #</u>
Nitrilotriacetic Acid	139-13-9
Sodium Metasilicate	6834-92-0
Monoethanolamine	141-43-5
Ethylene Glycol	111-76-2
Sodium Xylene Sulfonate	1300-72-7

Superfund Amendments and Reauthorization Act of 1986 (SARA):
 Title III Sections 302 and 304 – Extremely Hazardous Substances:

<u>Component</u>	<u>CAS #</u>
None	

Title III – Section 313 Reportable Chemical

<u>Component</u>	<u>CAS #</u>
Nitrilotriacetic Acid	139-13-9

Title III – Section 311 and 312

	<u>Nitrilotriacetic Acid</u>	<u>Sodium Metasilicate</u>
Delayed hazard:	No	No
Fire hazard:	No	No
Immediate health hazard	Yes	Yes
Reactive hazard	No	No
Sudden release of pressure hazard	No	No

TSCA Status: d-Limonene is the only component in this product listed on the TSCA inventory.

16 ADDITIONAL INFORMATION

Hazard Ratings:

	<u>HMIS</u>		<u>NFPA</u>
Health	1	Health	1
Flammability	0	Flammability	0
Reactivity	0	Reactivity	0
PPE	B	Other	B

HEALTH	1
FIRE HAZARD	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

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