

TRADE NAME: MATCD012

EFFECTIVE DATE: 8/14/08

*1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION *

Manufacturer's Name
Rogers Corporation/Durel Division
2225 W. Chandler Blvd.
Chandler, AZ 85224

Emergency Telephone No: CHEMTREC
DOMESTIC: 1-800-424-9300
INTERNATIONAL: 01-703-527-3887
(CALL COLLECT)

Chemical Family
SILVER INK

*2. COMPOSITION/INFORMATION ON INGREDIENTS *

---CAS Number---	---Ingredients---	Carcinogenicity			
		%WT/WT	NTP	IARC	OSHA
7440-22-4	Silver	60-100	N	N	N
1336-21-6	Ammonium Hydroxide	1-5	N	N	N
ACCESS # 1194	Proprietary Non-Hazardous Ingredient	10-30	N	N	N

----- Occupational Exposure Limits -----		
CAS Number	ACGIH TLV	OSHA PEL
7440-22-4	.10MG/M3	.01MG/M3
1336-21-6	None Estab.	25.00PPM
ACCESS #1194	None Estab.	None Estab.

*3. HAZARDS IDENTIFICATION *

EMERGENCY OVERVIEW

Potential Health Effects --

INGESTION :

Irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this material.

EYE CONTACT :

This product contains a chemical or chemicals which may be corrosive and cause irreversible eye damage.

SKIN CONTACT :

This product contains a chemical or chemicals which are corrosive to the skin. Excessive skin contact will result in chemical burns.

OTHER SKIN CONTACT :

The components of this product are not expected to be absorbed through the skin.

INHALATION :

Vapors and mists irritate eyes, nose and throat.

Vapors and mists generated from this product may be harmful if inhaled.

CHRONIC:
This product contains silver metal. Exposure to silver may cause argyria, a blue-gray discoloration of the eyes, skin, mucous membranes and upper respiratory tract.

*4. FIRST AID MEASURES *

Ingestion :
If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting. If vomiting occurs naturally have the victim lean forward to reduce the risk of aspiration. Never give anything by mouth if the victim is rapidly losing consciousness, unconscious or convulsing. Call Poison Control for further instructions.

Skin Contact:
If excessive skin contact with this product occurs, flush immediately with plenty of water, followed by waterless hand cleaner and washing with soap and water if the material appears to adhere to the skin. Consult a poison center, emergency room or physician for additional information and guidance.

Eye Contact:
If this product is splashed into the eyes, flush eyes immediately with plenty of water for at least 30 minutes. Consult a poison center, emergency room or eye specialist for additional information and guidance.

Inhalation :
If excessive amounts of vapors or mists from this product are inhaled, remove to fresh air. Apply artificial respiration and other supportive measures as required. Consult a poison center, emergency room or lung specialist for additional information and guidance.

*5. FIRE FIGHTING MEASURES *

Flashpoint and Method : > 93 C Closed Cup

Flammable Limits: Not Available

General Hazard :
Some may burn, but none ignite readily. Containers may explode when heated. Ruptured cylinders may rocket.

Fire :
Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.

Small Fire Fighting Instructions :
Dry chemical or CO2.

Large Fire Fighting Instructions :

Water spray or fog. Move containers from fire area if you can do it without risk.

General Fire Fighting Instructions:

Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.

Fire Fighting Equipment:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS :

Oxides of Carbon

Oxides of Silver

*6. ACCIDENTAL RELEASE MEASURES *

Spills :

Small Spills :

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Use clean non-sparking tools to collect absorbed material.

Large Spills :

Dike far ahead of liquid spill for later disposal.

*7. HANDLING AND STORAGE *

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Atmospheric

Keep container closed. Loosen closure cautiously before opening. Store in a cool and well ventilated place away from incompatible materials. [See Stability and Reactivity Section].

Empty containers may retain hazardous properties. Follow all MSDS/Label warnings even after container is emptied.

*8. EXPOSURE CONTROLS/PERSONAL PROTECTION *

ENGINEERING CONTROLS :

Provide sufficient mechanical ventilation to maintain exposure below TLV(s). Overexposures to vapors and mists may be prevented by ensuring ventilation controls, local exhaust and/or fresh air entry. NIOSH/MSHA Schedule TC-23C- air purifying or a Schedule TC-19C- air supplied respirator may also be used to reduce exposures. Read the manufacturer's instructions and literature carefully to determine the type(s) of airborne contaminant(s) against which the

respirator is effective and how it is to be properly fitted.

Eye Protection :

Due to the severe nature of the eye irritation from contact due to splashing or spraying of liquid or from airborne particles or vapors, vapor tight chemical-type splash goggles and/or a full face shield should be worn when handling this product.

Skin Protection :

Due to the potentially severe nature of the effects from skin contact with this material, all exposed skin surfaces should be covered with impermeable clothing such as aprons, disposable suits and gloves. This protective equipment should be constructed of material(s) which are appropriate to prevent contact with the chemicals listed in the ingredient section of the MSDS.

*9. PHYSICAL AND CHEMICAL PROPERTIES *

Vapor Pressure	: Not available	Vapor Density	:Not available
Specific Gravity	: 3.01	Evaporation Rate	:Not available
Solubility in Water	: INSOLUBLE	Freezing Point	:Not available
pH	: Not available	Freezable	: No
Boiling Point	: Not available	VOC	:Not Determined
Viscosity	: Not available	Reduced VOC	:N/A
Appearance	: SILVER COLORED LIQUID		
Product Use			:NOT DETERMINED
Odor			:NOT DETERMINED
Odor Threshold			:NOT DETERMINED
Coefficient of water/oil Distributon			:NOT DETERMINED
Auto-ignition Temperature			:NOT DETERMINED
Explosion Data-Sensitivity to Mechanical Impact			:NOT DETERMINED
Explosion Data-Sensitivity to Static Discharge			:NOT DETERMINED
Physical State			:NOT DETERMINED

*10. STABILITY AND REACTIVITY *

GENERAL :

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIAL AND CONDITIONS TO AVOID :

Strong oxidizers.

*11. TOXICOLOGICAL INFORMATION *

LD50 IS FOR ORAL RAT	: NOT DETERMINED
LC50 SPECIES AND ROUTE	: NOT DETERMINED
REPRODUCTIVE TOXICITY	: NOT DETERMINED
TERATOGENICITY	: NOT DETERMINED
EMBRYOTOXICITY	: NOT DETERMINED
MUTAGENICITY	: NOT DETERMINED
NAME OF SYNERGISTIC PRODUCTS/EFFECTS	: NOT DETERMINED

*12. ECOLOGICAL INFORMATION *

NOT AVAILABLE

*13. DISPOSAL CONSIDERATIONS *

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

*14. TRANSPORT INFORMATION *

DOT (Dept. of Transportation):
Not Regulated

Air Shipment (IATA):
Not Determined

Ocean Shipment (IMDG):
Not Determined

*15. REGULATORY INFORMATION *

SARA TITLE 3: Section 313 Information (40 CFR 372)

This product contains a chemical which is listed in Section 313 at or above DE MINIMIS concentration. The following listed chemicals are present:

CAS NUMBER	DESCRIPTION	%
7440-22-4	Silver	75.00
1336-21-6	Ammonium Hydroxide	2.00

California Proposition 65:

WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.

COMPONENT DESCRIPTION	CAS NUMBER
*NONE	

TSCA- All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control ACT (TSCA) Chemical Substance Inventory.

*16. OTHER INFORMATION *

If this material is part of a multiple component system, read the MSDS(s) for

the other component(s) before blending as the resulting mixture may have the hazards of all of its parts.

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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