

MATERIAL SAFETY 3M
 DATA SHEET 3M Center
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DIVISION: HOME AND COMMERCIAL CARE DIVISION

TRADE NAME:

TARNI-SHIELD BRAND SILVER CLEANER (CAT. NO. 625/627)

ID NUMBER/U.P.C.:

44-0004-3552-7 - - - 70-0702-5555-2 00-21200-76546-4
 70-0706-7518-9 00-21200-76546-4 70-0709-3143-4 00-21200-43579-4

ISSUED: March 21, 2000

SUPERSEDES: May 24, 1999

DOCUMENT: 10-2490-0

1. INGREDIENT	C.A.S. NO.	PERCENT	
WATER.....	7732-18-5	60	- 90
CERAMIC MATERIALS.....	66402-68-4	10	- 30
GLYCERIN.....	56-81-5	3	- 7
SILICA.....	7631-86-9	3	- 7
1-OCTADECANETHIOL.....	2885-00-9	1	- 5
SORBITAN POLYETHOXY MONOLAURATE (POLYSORBATE 20).....	9005-64-5	1	- 5
HYDROXYPROPYL METHYL CELLULOSE.....	9004-65-3	1	- 5
SORBITAN MONOLAURATE.....	1338-39-2	1	- 5
METHYL P-HYDROXYBENZOATE.....	99-76-3	0.1	- 1
CIS-1-(3-CHLOROALLYL)-3,5,7-TRIAZA-1- AZONIAADAMANTANE CHLORIDE.....	51229-78-8	0.1	- 1

IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24
 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT.
 The components of this product are in compliance with the chemical
 notification requirements of TSCA.

2. PHYSICAL DATA

BOILING POINT:..... ca. 212 F
 VAPOR PRESSURE:..... N/A
 VAPOR DENSITY:..... N/A
 EVAPORATION RATE:..... N/A
 SOLUBILITY IN WATER:..... N/D
 SPECIFIC GRAVITY:..... ca. 1.155 Water=1

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

2. PHYSICAL DATA (continued)

PERCENT VOLATILE:..... 60 - 90 % by wt
pH:..... ca. 5
VISCOSITY:..... N/D
MELTING POINT:..... N/D

APPEARANCE AND ODOR:
Slurry, blue colored, floral mint odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
FLAMMABLE LIMITS - LEL:..... N/A
FLAMMABLE LIMITS - UEL:..... N/A
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:
Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:
Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Not applicable.

NFPA HAZARD CODES: HEALTH: 0 FIRE: 0 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Not applicable.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
Not determined.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue. Place in a U.S. DOT-approved container.

RECOMMENDED DISPOSAL:

Flush spent solutions and small quantities (less than 5 gal.(19 L)) to a wastewater treatment system. Reduce discharge rate if foaming occurs. Incinerate large quantities in a permitted hazardous waste incinerator.

ENVIRONMENTAL DATA:

No data available.

REGULATORY INFORMATION:

Volatile Organic Compounds: < 1 %.
VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

TSCA: all components of this material are listed on the US EPA TSCA inventory.

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: No

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

No need for first aid is anticipated.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

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 7. PRECAUTIONARY INFORMATION

EYE PROTECTION:
 Avoid eye contact.

SKIN PROTECTION:
 Avoid prolonged or repeated skin contact.

RECOMMENDED VENTILATION:
 Not applicable.

RESPIRATORY PROTECTION:
 Not required

PREVENTION OF ACCIDENTAL INGESTION:
 Do not ingest.

RECOMMENDED STORAGE:
 Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:
 Keep container tightly closed.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
WATER.....	NONE	NONE	NONE	NONE	
CERAMIC MATERIALS.....	NONE	NONE	NONE	NONE	
GLYCERIN.....	10	MG/M3	TWA	ACGIH	
		as mist			
GLYCERIN.....	10	MG/M3	TWA	OSHA	
		as mist			
SILICA.....	NONE	NONE	NONE	NONE	
1-OCTADECANETHIOL.....	NONE	NONE	NONE	NONE	
SORBITAN POLYETHOXY MONOLAURATE (POLYSORBATE 20).....	NONE	NONE	NONE	NONE	
HYDROXYPROPYL METHYL CELLULOSE.....	NONE	NONE	NONE	NONE	
SORBITAN MONOLAURATE.....	NONE	NONE	NONE	NONE	
METHYL P-HYDROXYBENZOATE.....	NONE	NONE	NONE	NONE	
CIS-1-(3-CHLOROALLYL)-3,5,7-TRIAZA- 1-AZONIAADAMANTANE CHLORIDE.....	NONE	NONE	NONE	NONE	

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - OSHA: Occupational Safety and Health Administration

 Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
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- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

INHALATION:

No adverse health effects are expected from inhalation exposure.

IF SWALLOWED:

No adverse health effects are expected from swallowing.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE May 24, 1999	ISSUE
INGREDIENTS	SECTION CHANGED SINCE May 24, 1999	ISSUE

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