



MATERIAL SAFETY DATA SHEET

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SILVER JEWELRY CLEANER

Model No: 1046, 773

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union Reach Regulations

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SILVER JEWELRY CLEANER Model: 1046, 773
 PRODUCT USE: Jewelry Cleaner
 U.N. Number: UN3264
 U.N. DANGEROUS GOODS CLASS: Corrosive Liquid, acidic, inorganic, n.o.s. (Sulfuric Acid) See section 14
 SUPPLIER/MANUFACTURER'S NAME: **Connoisseurs Products Corporation**
 ADDRESS: 17 Presidential Way, Woburn, MA 01801-1040 USA
 EMERGENCY PHONE: Chemtrec 800-424-9300(US); +1 703-527-3887(Outside US)
 BUSINESS PHONE: +1 781-932-3949
 DATE OF PREPARATION: August 6, 2011
 DATE OF LAST REVISION: Oct 1, 2005
 DATE SUPERSEDED

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product Description: This product is a clear, pale yellow, thin, foamy liquid with a mild mint odor.
Health Hazards: Corrosive. Exposure to this product can cause severe irritation to eyes and skin. Inhalation of mist can cause severe irritation to mucous membranes and respiratory tract. This product contains ingredient(s) that are suspected or known to cause cancer.
Flammability Hazards: This product has a flash point greater than 200°F (93.3°C)
Reactivity Hazards: This product is slightly reactive
Environmental Hazards: The Environmental effects of this product have not been fully investigated.
Emergency Considerations: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

US DOT SYMBOLS



CANADA (WHMIS) SYMBOLS



EUROPEAN and (GHS) Hazard Symbols



Signal Word: **Warning!**

EU LABELING AND CLASSIFICATION:

Classification of the substance or mixture according to Regulation (EC) No1272/2008
EC# 231-791-2 This substance is not classified in the Annex I of Directive 67/548/EEC
EC# 200-543-5 Annex 1 Index# 612-082-00-0
EC# 231-639-5 Annex 1 Index# 016-020-00-8
EC# 500-084-3 This substance is not classified in the Annex I of Directive 67/548/EEC
EC# 500-195-7 This substance is not classified in the Annex I of Directive 67/548/EEC

GHS Hazard Classification(s):

Carcinogenicity Category 2

Reproductive Toxicity Category 2
 Acute Oral Toxicity Category 4
 Chronic Aquatic Toxicity Category 2
 Eye Irritant Category 2
 Skin Irritant Category 2

Hazard Statement(s):

H351: Suspected of causing cancer
 H361: Suspected of damaging fertility or the unborn child
 H302: Harmful if swallowed
 H315: Causes skin irritation
 H319: Causes serious eye irritation
 H411: Toxic to aquatic life with long lasting effects

Precautionary Statement(s):

P202: Do not handle until all safety precautions have been read and understood.
 P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink, or smoke when using this product.
 P273: Avoid release to the environment.
 P281: Use personal protective equipment as required.

EU HAZARD CLASSIFICATION PER DIRECTIVE 1999/45/EC

Hazard Symbol(s):

[Xn] Harmful, [C] Corrosive, [Xi] Irritant, [N] Dangerous to the Environment

Risk Phrases:

R40: Limited evidence of carcinogenic effect
 R63: Possible risk of harm to the unborn child
 R22: Harmful if swallowed
 R36/38: Irritating to eyes and skin
 R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

Safety Phrases:

S2: Keep out of the reach of children
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S30: Never add water to this product.
 S36/37: Wear suitable protective clothing and gloves.
 S45: In case of accident or if you feel unwell, seek medical advice immediately.
 S61: Avoid release to the environment.

Health Hazards or Risks from Exposure:

ACUTE: Exposure to this product causes severe irritation of the eyes and skin. Ingestion may cause severe pain, ulceration of the digestive tract. Thiourea is toxic to humans. Mist from this product causes severe irritation to mucous membranes and respiratory tract.

CHRONIC: The effects of long term, low level exposures to this product have not been determined.

TARGET ORGANS: ACUTE: Eyes, Skin, Respiratory System CHRONIC: Liver, Blood

SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

Hazardous Ingredients:	CAS #	EINECS #	ICSC #	WT %	Hazard Classification; Risk Phrases
Water	7732-18-5	231-791-2	Not Listed	<90%	Hazard Classification: None RISK PHRASES: None
Thiourea	62-56-6	200-543-5	0680	5 – 10%	Hazard Classification: Carc. Cat 3, Repr Cat. 3, [Xn] Harmful, [N] Dangerous to the Environment RISK PHRASES: R40, R63, R22, R51/53
Sulfuric Acid 93%	7664-93-9	231-639-5	0362	1 – 4%	Hazard Classification: [C] Corrosive, [Xi] Irritant RISK PHRASES: R36/38

C11 Alcohol Ethoxylate	34398-01-1	500-084-3	Not Listed	<2%	Hazard Classification: None RISK PHRASES: None
C12 – 15 Alcohol Ethoxylate	68131-39-5	500-195-7	Not Listed	<2%	Hazard Classification: None RISK PHRASES: None
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard *JIS Z 7250: 2000*.

SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs.

Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and MSDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT: >200°F (93.3°C)

AUTOIGNITION TEMPERATURE: Not Established

FLAMMABLE LIMITS (in air by volume, %): Lower (LEL): NE Upper (UEL): NE

FIRE EXTINGUISHING MATERIALS: Carbon dioxide, foam, dry chemical, halon, or water spray.

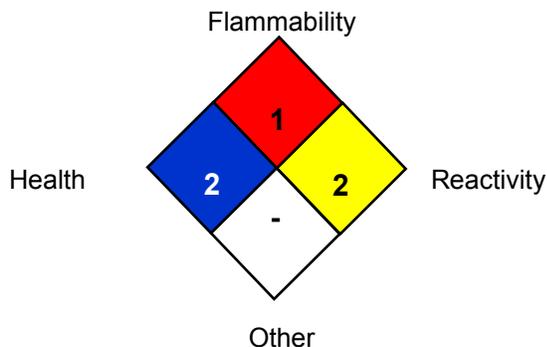
UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion may produce noxious and irritating gases.

Explosion Sensitivity to Mechanical Impact: Not Sensitive.

Explosion Sensitivity to Static Discharge: Not Sensitive

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)			2
FLAMMABILITY HAZARD (RED)			1
PHYSICAL HAZARD (YELLOW)			0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Health Hazard

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations.

SPILLS: Contain spill if safe to do so. Cover or absorb spilled liquid with sand, earth or other inert material. Clean up spill immediately and place in appropriate containers. Keep spill out of sewers and open bodies of water. CAUTION: Floor may become slippery.

Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 7 – HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: Containers of this product must be properly labeled. Store containers in a cool, dry location. Keep container tightly closed when not in use.

SECTION 8 – EXPOSURE CONTROLS – PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	SWA
Water	7732-18-5	Not Listed	Not Listed	Not Listed
Thiourea	62-56-6	Not Listed	Not Listed	Not Listed
Sulfuric Acid 93%	7664-93-9	0.2 mg/m ³	1.0 mg/m ³	0.2 mg/m ³
C11 Alcohol Ethoxylate	34398-01-1	Not Listed	Not Listed	Not Listed

C12 – 15 Alcohol Ethoxylate	68131-39-5	Not Listed	Not Listed	Not Listed
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Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

VENTILATION AND ENGINEERING CONTROLS: Use with adequate room ventilation to ensure exposure levels are maintained below the exposure limits provided. Use local exhaust ventilation to control airborne vapors/mists. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Not normally required with this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or chemical goggles where splashing is possible. Contact lenses should not be worn. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact as appropriate. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Not normally required when using this product. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE & ODOR:	Clear, pale-yellow, thin, foamy liquid with a mint odor.
ODOR THRESHOLD:	Not Determined
VAPOR PRESSURE (mmHg):	Not Determined
VAPOR DENSITY (AIR=1):	Not Determined
EVAPORATION RATE (nBuAc = 1):	Approx. same as water
BOILING POINT (C°):	Approx 100°C (212°F)
FREEZING POINT (C°):	0°C (32°F)
pH:	1.25
SPECIFIC GRAVITY 20°C: (WATER =1)	1.033 @ 25°C
DENSITY:	8.60 lb/gal @ 25°C
SOLUBILITY IN WATER (%)	Complete
REFRACTIVE INDEX:	1.3590 @ 20°C

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Product is stable

DECOMPOSITION PRODUCTS: When heated to decomposition this product produces Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Sulfur Oxides and other toxic gases.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Highly reactive; capable of igniting finely divided combustible materials on contact. Reacts violently with organic materials with evolution of heat. Extremely hazardous in contact with many materials particularly Carbides, Chlorates, Fulminates, Nitrates, Picrates, Powdered Metals, releasing Hydrogen gas.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data is not available for ingredients in this mixture:

CAS# 62-56-6 LD50 Oral	125 mg/kg	Rat
CAS# 7664-93-9 LD50 Oral	2140 mg/kg	Rat
CAS# 7664-93-9 LC50 Inhalation	510 mg/m ³ 2H	Rat
CAS# 68131-39-5 LD50 Dermal	5,000 mg/kg	Rat
CAS# 68131-39-5 LD50 Ingestion	1,200 mg/kg	Rat

SUSPECTED CANCER AGENT: The following ingredients are found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore are considered to be, or suspected to be a cancer-causing agent by these agencies. CAS# 62-56-6 Thiourea, CAS# 7664-93-9 Sulfuric Acid

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin, and eyes.

SENSITIZATION OF PRODUCT: This product is not considered a sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: This product contains an ingredient that may cause reproductive and fetal effects.

SECTION 12 – ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No Data available at this time.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this product's effects on plants or animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life.

SECTION 13 – DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: This product, if disposed of as shipped is considered a hazardous waste as specified in 40 CFR 261.

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

SECTION 14 – TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

This product may be shipped within the continental U.S. by truck or rail in limited quantities (Under 30kg) as a "Consumer Commodity"

PROPER SHIPPING NAME: Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric Acid)

HAZARD CLASS NUMBER and DESCRIPTION: Class 8

UN IDENTIFICATION NUMBER: UN3264

PACKING GROUP: III

DOT LABEL(S) REQUIRED: Corrosive

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): 154

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

Metal Corrosion Test: Corrosive to metal by DOT, IATA, ADR and IMDG/IMO criteria

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is classified as Dangerous Goods, by rules of IATA:

Note: Packaging does not comply with IATA regulations and cannot be shipped by aircraft.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

SECTION 15 – REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA Reporting Requirements: This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: CAS# 7664-93-9 Sulfuric Acid SARA 302 TPQ 1,000 Lbs (454 Kg), SARA 304 RO 1,000 Lbs (454 Kg), CAS# 62-56-6 Thiourea SARA 313

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

Acute Health: Yes Chronic Health: Yes Fire: Yes Reactivity: Yes

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): CAS# 62-56-6 Thiourea RQ. 10 Lbs (4.54 Kg), CAS# 7664-93-9 Sulfuric Acid RQ. 1,000 Lbs (454 Kg)

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains ingredients are on the California Proposition 65 lists.

WARNING! This product contains ingredients that are known to the State of California to cause cancer, birth defects or other reproductive harm

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is categorized as a Controlled Product, Class D2A Materials causing other toxic effects, Class E Corrosive material as per the Controlled Product Regulations

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY (MITI/METI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed
Australian Inventory of Chemical Substances (AICS):	Listed
Korean Existing Chemicals List (ECL):	Listed
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed
Swiss Giftliste List of Toxic Substances:	Listed
U.S. TSCA:	Listed

SECTION 16 – OTHER INFORMATION

Date Superseded: _____

Disclaimer: To the best of Connoisseurs Products Corporation knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type either express or implied are provided. The information contained herein relates only to this specific product.