

JELMAR
MATERIAL SAFETY DATA SHEET
TARN-X JEWELRY CLEANER (DfE)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:	Jelmar	Emergency Phone Number: 1(800) 323-5497 (USA)
Address:	5550 W. Touhy Ave. Skokie, IL 60077	Monday – Friday 8:30 A.M. – 4:30 P.M. CST
		Emergency Contact: Chemtrec 1(800) 424-9300
Product Name:	Tarn-x Jewelry Cleaner (DfE)	
MSDS ID:	98A0810	
Chemical Family:	Aqueous Mixture	
Formula:	Proprietary Mixture	

SECTION 2 – HAZARDS IDENTIFICATION

PHYSICAL STATE: Liquid
COLOR: Crystal clear, medium blue
ODOR: Characteristic, surfactant

WARNING OVERVIEW: May be irritating to eyes, skin, and respiratory tract. Use with adequate ventilation. Avoid breathing mist or vapor. May be harmful if inhaled or swallowed. Keep container closed when not in use.

POTENTIAL HEALTH EFFECTS

ROUTES OF EXPOSURE: Eyes. Skin. Inhalation. Ingestion. Absorption.

TARGET ORGANS: Eyes, skin and respiratory system.

EYE CONTACT: May cause slight irritation. Effects may vary depending on length of exposure, solution concentration, and first aid measures. Prolonged contact may cause greater degree of irritation.

SKIN CONTACT: May causes skin irritation. Prolonged contact may cause itching or dermatitis.

INHALATION: May cause moderate irritation. Vapors or mists may irritate mucous membranes and respiratory tract. Use in well ventilated areas.

INGESTION: May cause moderate irritation. May irritate throat and gastrointestinal tract. Ingestion of significant quantity may result in red blood hemolysis. Liquid ingestion may result in vomiting. Aspiration of liquid into the lungs must be avoided as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/hemorrhage.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO PRODUCT: Eye, skin, and respiratory disorders.

CANCER INFORMATION: This product does not contain >0.10% of the known potential carcinogens listed in NTP, IRAC, or OSHA.

KEEP OUT OF REACH OF CHILDREN.

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>OSHA HAZARD</u>	<u>% by Weight</u>
1. Water	7732-18-5	NO	91.50 -.95.75
2. Sodium Laurimino Dipropionate	14960-06-6	NO	1.00 - 4.00
3. Propylene Glycol n-Butyl Ether	5131-66-8	YES	0.50 – 2.00

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SECTION 4 – FIRST AID MEASURES

EYE CONTACT: In case of eye contact, immediately rinse eye thoroughly with plenty of water. Remove contact lenses, and continue rinsing for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT: No adverse effects during normal usage. In case of skin contact, rinse area for at least 15 minutes. Remove contaminated clothing and shoes, wash thoroughly before reuse. Get immediate medical attention if irritation develops or persists. Wash hands with soap and water after use.

INHALATION: Not a significant route of exposure. Remove to fresh air. If breathing is difficult, GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: DO NOT induce vomiting. If fully conscious, drink 16 ounces of water. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER give an unconscious person anything to ingest. DO NOT induce vomiting unless directed to do so by a physician. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABILITY: Not flammable

FLASH POINT: None (>100° C): Method: TOC

EXPLOSIVE LIMITS IN AIR: Not available

EXTINGUISHING MEDIA: Not flammable. Use appropriate media for area. Water spray, dry chemical, alcohol foam or carbon dioxide.

FIRE FIGHTING METHODS: Evacuate area of personnel. Wear protective NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide. Corrosive amines. Unidentifiable organic materials.

FIRE AND EXPLOSION HAZARDS: Material will burn in fire, releasing toxic vapors.

SECTION 6 – ACCIDENTAL RELEASES MEASURES

Steps to be taken in Case Material is Released or Spilled: Avoid contact with skin and eyes

Small Spill: No special clean-up procedure is necessary for small (less than 1 gallon) spills. Flush spill area with water. Wear rubber gloves.

Large Spill: Use personal protection recommended in Section 8. Isolate area, and deny entry to unnecessary and unprotected personnel. Dam spill, and absorb with earth, sand or similar material. Place in non-leaking containers. Dispose of collected material according to local, state, and federal regulations. Flush residue with large amount of water. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

SECTION 7- HANDLING AND STORAGE

STORAGE: Store in cool, well-ventilated area, away from heat. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Store in original container in a secure area away from children and pets.

HANDLING: Avoid contact with eyes, skin or clothing. May be harmful or fatal if swallowed. Use with adequate ventilation. Avoid breathing vapors or mist. Do not eat, drink, or smoke in work area. Wash hand thoroughly after use. Consumer containers may be rinsed and recycled. Empty containers may contain product residue in form of vapor, dried product, or liquid, and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE THESE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY.

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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENT: Avoid prolonged breathing mists or dusts of this product. Use with adequate ventilation. Do not use in closed or confined spaces.

RESPIRATORY PROTECTION: None required during normal household use. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of product.

EYE PROTECTION: Not required during normal household usage. Emergency responders should wear full eye and face protection.

SKIN PROTECTION: None required during normal household use. Emergency responders should wear impermeable gloves.

OTHER PROTECTION: Emergency responders should wear chemical type (impermeable) protective clothing and footwear where direct contact with chemicals in this product is possible.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after use or handling.

EXPOSURE GUIDELINES:

<u>COMPONENT</u>	<u>OSHA</u>		<u>ACGIH</u>	
	<u>PEL</u>	<u>STEL/C</u>	<u>TWA</u>	<u>STEL/C</u>
Water	N.E.	N.E.	N.E.	N.E.
Sodium Laurimino Dipropionate	N.E.	N.E.	N.E.	N.E.
Propylene Glycol n-Butyl Ether	N.E.	N.E.	N.E.	N.E.

N.E. – Not Established

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling point:	100.2° C	Specific Gravity:	1.015 – 1.035
Vapor Pressure:	N.D.	Percent Volatiles:	~93.75% (Calculated)
Freezing Point:	N.D.	Evaporation Rate:	N.D. (nBuAc=1)
Melting Point:	N.D.	VOC (Wt%):	<1.5 (Calculated)
Vapor Density (mm Hg):	N.D.	VOC (LBS/GAL):	<0.15 (Calculated)
pH:	~5.5	Solubility in Water:	100%
Flash Point:	>100°C		

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid elevated temperatures.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, metals, acids, and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can lead to release of irritating gases, vapors and carbon oxides.

POSSIBILITY OF HAZARDOUS REACTIONS: No data.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS: A dose of 5 ml/kg was given to 5 male and 5 female rats and no mortality occurred in 14 days. The acute oral LD₅₀ was found to be > 5 ml/kg. The product is not toxic by oral ingestion in accordance with FHSA / CPSC Guidelines.

SKIN: Not a primary dermal irritant in accordance with FHSA / CPSC Guidelines.

EYE: Not an eye Irritant in accordance with FHSA / CPSC Guidelines

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SECTION 12- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available.

CHEMICAL FATE INFORMATION: 28-day biodegradation >60%. This matter is readily biodegradable.

SECTION 13 – DISPOSAL CONSIDERATIONS

HAZARDOUS WASTE NUMBER: N.A.

DISPOSAL METHOD: Dispose of in a permitted hazardous waste management facility following all local, state, and federal regulations.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.

Follow label warnings, since containers may retain some residue of the product.

Processing, use or contamination of this product may change the waste management options. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. State and local disposal regulations may differ from federal disposal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT (Department of Transportation Proper Shipping Name): Not regulated by DOT.

Identification Number: N.A.

Packaging Group: N.A.

UN Number: N.A.

TDG Classification: Not Regulated

IMDG Classification: Not Regulated

IATA Classification: Passenger – Not Regulated

WHIMS (Canada): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

SECTION 15 – REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA TITLE III SECTION 311/312 CATEGORY:

IMMEDIATE (ACUTE) HEALTH HAZARD:	NO
DELAYED (CHRONIC) HEALTH HAZARD:	NO
FIRE HAZARD:	NO
SUDDEN RELEASE OF PRESSURE:	NO
REACTIVE HAZARD:	NO

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SECTION 15 – REGULATORY INFORMATION (CONTINUED)

FEDERAL REGULATIONS:

SARA SECTIONS 302/304/313/HAP:

COMPENT	RQ (LBS) (1*)	RQ (LBS) (2*)	TPQ (LBS) (3*)	SEC 313 (4*)	HAP (5*)
Water	N.A.	N.A.	N.A.	NO	NO
Sodium Laurimino Dipropionate	N.A.	N.A.	N.A.	NO	NO
Propylene Glycol n-Butyl Ether	N.A.	N.A.	N.A.	NO	NO

REGULATORY AGENCIES

*1: CERCLA Reportable Quantity

*2: SARA Reportable Quantity

*3: SARA EHS Threshold Planning Quantity

*4: SARA 313 Toxic Chemical / Category

*5: U. S. EPA Hazardous Air Pollutant

INTERNATIONAL CHEMICAL INVENTORY STATUS:

EUROPEAN UNION (EINECS)	YES
JAPAN (METI)	YES
AUSTRALIA (ACIS)	YES
KOREA (KECL)	YES
CANADA (DSL)	YES
CANADA (NDSL)	NO
PHILIPPINES	YES

STATES RIGHT TO KNOW: California, New Jersey, Pennsylvania, Minnesota, Massachusetts, and Wisconsin. None

The following statement is made in order to comply with the California State Drinking Water Act. California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects and other reproductive harm. None.

SECTION 16 – OTHER INFORMATION

NFPA Rating System: Health-0 / Flammability-0 / Reactivity-0 / Special Hazard - None

Precautions to be taken in Handling and Storing: Avoid exposure to excess heat, and prevent from freezing.

Other Precautions: None required.

MSDS ABBREVIATIONS:

N. A.:	Not Applicable	C:	Ceiling Limit
N. D.:	Not Determined	HAP:	Hazardous Air Pollutant
N.E.:	Not Established	VOC:	Volatile Organic Compound

August 2010

R. A. Gaudreault

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, JELMAR offers no representations as to the completeness or accuracy thereof. Information is provided upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will JELMAR be responsible for damages of any nature whatsoever resulting from use of or reliance upon said information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION HEREIN REFERES.