



SAFETY DATA SHEET

1 - PRODUCT AND COMPANY IDENTIFICATION

SDS ID: 98C1213

Product Name **TARN-X JEWELRY CLEANER**

Product Use Aqueous Slightly Acidic Cleaner for Removal of Accumulated Grime on Jewelry
Retail Package: [12 fl. oz. (354.84 ml)]

CAS# Proprietary Mixture

Restrictions on Use: Incompatible with strong oxidizing agents, acids, bases, and bleach. Do not use on marble, pearls, opals, and other porous stones.

Manufacturer: **Jelmar, LLC**
Address: 5550 W. Touhy Ave.
Skokie, IL 60077

Emergency Phone Number: 1(800) 323-5497 (USA)
Monday – Friday 8:30 A.M. – 4:30 P.M. CST
Emergency 24 hour Contact: Chemtrec 1(800) 424-9300

2 – HAZARDS IDENTIFICATION



Emergency Overview: WARNING: MILD IRRITANT. Causes eye irritation GHS Toxicity Category 2B
possible SKIN IRRITANT – GHS Category 3 on sensitive skin. DO NOT get in eyes, on skin or clothing. DO NOT mix with bleach or other household chemicals as harmful fumes may result. DO NOT ingest. DO NOT breathe vapor or mist. Use in well ventilated areas. Keep container closed when not in use.

KEEP OUT OF REACH OF CHILDREN

Potential Short Term Health Effects

Routes of Exposure Eyes, Skin, Inhalation, Ingestion.

Eyes Mild Irritant
Avoid eye contact
Effects may vary depending on length of exposure, solution concentration

Skin Prolonged contact may cause dermatitis, and itching.

Inhalation No adverse effects expected under typical use conditions.

Ingestion Oral burns, vomiting, and gastrointestinal disturbance.

Target organs Eyes. Skin.

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>OSHA HAZARD</u>	<u>% by Weight</u>
1. Sodium Lauriminodipropionate	14960-06-6	YES	1.00-4.00



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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. If irritation persists, get medical attention.

SKIN CONTACT: Can be irritating to skin, prolonged contact can be more severe, 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. If irritation persists get medical attention.

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.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABILITY: Not flammable

FLASH POINT: None; Method: ASTM D-56

EXPLOSIVE LIMITS IN AIR: Not available

EXTINGUISHING MEDIA: Not flammable. Use appropriate media for area. Use 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. Run-off of large quantities of product from fire control may cause pollution. Contact appropriate agencies.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide. Thermal decomposition can lead to irritating gases and vapors.

FIRE AND EXPLOSION HAZARDS: None known.

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.

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 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 size containers (12 fluid ounces), should be rinsed and recycled. DO NOT PRESSURIZE, CUT OR EXPOSE THESE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY.

DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS AS TOXIC FUMES MAY RESULT. KEEP OUT OF REACH OF CHILDREN.



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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: Rubber gloves with protective cuff. 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>PEL</u>	<u>OSHA</u> <u>STEL/C</u>	<u>ACGIH</u> <u>TWA</u>	<u>ACGIH</u> <u>STEL/C</u>
1. Sodium Lauriminodipropionate	N.E.	N.E.	N.E.	N.E.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystal clear, medium blue liquid

Boiling point: 99°C / 210° F

Vapor Pressure: N.D.

Freezing Point: N.D.

Melting Point: N.D.

Vapor Density (mm Hg): N.D.

pH: @20°C 5.40-5.80

Solubility in Water: 100%

Odor: Mild surfactant

Specific Gravity @20°C: 1.000 – 1.020

Percent Volatiles: ~93.9% (Calculated)

Evaporation Rate: N.D. (nBuAc=1)

Total VOC (wt. %): 0% - does not include any (Volatile Organic Compounds/ CARB applicable California Air Resource Board) exemptions

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid elevated temperatures.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, acids, bases, marble, pearls, opals, and porous stones.

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

LD₅₀ ACUTE EYE IRRITATION: OPPTS 8740.2400 Toxicity Category III - Irritant; GHS Toxicity Category 2B – Mild Irritant

LD₅₀ ACUTE DERMAL IRRITATION - RABBITS: OPPTS 870.2500 Toxicity Category IV – Mild or Slight Skin Irritation; GHS Category 3 – Mild Skin Irritation.

LD₅₀ ACUTE ORAL TOXICITY – RATS: OPPTS 870.1100 Toxicity Category IV >5,000 mg/kg; GHS Category 5 >5,000 mg/kg - Not Toxic by Ingestion

LD₅₀ ACUTE DERMAL TOXICITY - RABBITS: OPPTS 870-1200 Toxicity Category IV >5 g/kg – Not Toxic; GHS Category 5 >5,000 mg/kg – Not Toxic

LD₅₀ ACUTE INHALATION TOXICITY – RATS: OPPTS 870.1300 Toxicity Category IV - Not toxic by inhalation; GHS Category 5 - Not toxic by inhalation.



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SECTION 12- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

SODIUM LAURIMINODIPROPIONATE:

Ecological information

MOBILITY

BIOACCUMULATION

Effects on the aquatic environment: EC 50 (Daphnia: Daphnia magna)/48 h: 32 mg/l.

Harmful to aquatic organisms tested.

(Unpublished internal reports)

Octanol/water partition coefficient

ECOTOXICITY

Expected behavior of the product: Ultimate destination of the product: WATER and SEDIMENT [*]

BIODEGRADABILITY

- Ultimate aerobic biodegradability According to OECD method 301 E:

94.2 % biodegradation after 28 days.

According to method ISO 14593:

76% biodegradation after 28 days.

Readily biodegradable.

(Unpublished internal reports)

: Not applicable (tensio-active)

Not classified as Dangerous for the Environment, according to EC criteria.

Sodium acrylate : [*]

M factor = 1 [according to the Globally Harmonized System

(GHS) and the 2nd Adaptation to Technical Progress of Directive 1999/45/EC]

DIPROPYLENE GLYCOL N-BUTYL ETHER:

Movement & Partitioning

Bioconcentration potential is low (BCF less than 100 or log Pow less than 3). Potential for mobility in soil is very high (Koc between 0 and 50).

Henry's Law Constant (H): 3.78E-07 atm*m³/mole; 25 °C Estimated.

Partition coefficient, n-octanol/water (log Pow): 1.13 Estimated.

Partition coefficient, soil organic carbon/water (Koc): 10 - 21 Estimated.

Persistence and Degradability

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

Indirect Photodegradation with OH Radicals

Rate Constant Atmospheric Half-life Method

4.97E-11 cm³/s 2.6 h Estimated.



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OECD Biodegradation Tests:

Biodegradation Exposure Time Method

91 % 28 d OECD 301E Test

96 % 28 d OECD 302B Test

Theoretical Oxygen Demand: 2.35 mg/mg

ECOTOXICITY

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Fish Acute & Prolonged Toxicity

LC50, guppy (*Poecilia reticulata*), static, 96 h: 841 mg/l

Aquatic Invertebrate Acute Toxicity

LC50, water flea *Daphnia magna*, static, 48 h, immobilization: > 1,000 mg/l

TARN-X JEWELRY CLEANER CHEMICAL FATE INFORMATION: 28-day biodegradation. The matter is readily biodegradable: **OECD 301D**

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Rinse empty containers and recycle. Dispose of unused product 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

UN Number: N.A.

UN Proper Shipping Name: 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 SDS contains all the information required by CPR.

Marine Pollutant: No

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.



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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

SARA SECTIONS 302/304/313/HAP: NO

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. Complies with listed States Right to Know Act.

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.

SECTION 16 – OTHER INFORMATION

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

Other Precautions: None required.

SDS ABBREVIATIONS:

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

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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 same 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.

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