



SAFETY DATA SHEET

AUTO DISH DETERGENT

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

Identification of Preparation: AUTO DISH DETERGENT
Date of Safety Data Sheet: November 7, 2016
Recommended Use: Machine Dish Detergent
Restrictions on Use: For industrial and institutional use only.

Company Identification: STARK INDUSTRIAL
527 Dundonald Street
Fredericton, NB L4K 1Y8

Company Emergency Telephone Number Emergency Phone: 1-888-709-7773

Transportation Emergency Telephone Number Emergency Phone: 1-888-709-7773

2. HAZARD IDENTIFICATION

Emergency Overview:

OSHA / WHMIS 2015 Hazards

Classification of substance or mixture

GHS-US/Canadian classification:

GHS Hazards

Skin Corrosive Category 1A H314

Eye Damage Category 1 H318

Carcinogenicity Category 2 H351

Label Elements

GHS-US/ Canada Labeling

Hazard Pictograms (GHS):



Signal Word (GHS): Danger!

Hazard Statements (GHS):

H290 – May be corrosive to metals.

H302 - Harmful if swallowed

H314- Causes severe skin burns and eye damage

H318 - Causes serious eye damage.

H351-Suspected of causing cancer

Precautionary Statements (GHS-US):

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.



SAFETY DATA SHEET

AUTO DISH DETERGENT

P260 Do not breathe mist, spray, and vapours.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280: Wear face protection, protective clothing, protective gloves, and eye protection.

Response Statements (GHS):

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

P315: Get immediate medical advice/attention.

P501: Dispose of contents / container in accordance with local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Trisodium nitrotriacetate	139-13-9	15-30	Acute Toxicity Category 4 (Oral) - H302 Serious Eye Damage/Irritation Category 2A – H318 Carcinogenicity Category 2 – H351 Aquatic Hazard (Acute) Category 3 – H402
Sodium Hydroxide	1310-73-2	15-30	Acute Toxicity Category 2 (Oral) - H300 Skin Corrosion Category 1A – H314 Eye Damage / Irritant Category 1 – H318 Aquatic Hazard (Acute) Category 3 – H402
Sodium Polycarboxylate	25956-17-6	1-5	Not classified under GHS

4. FIRST AID MEASURES

General Advice:

Remove to fresh air. If symptoms persist, consult a doctor.

Eye Contact:

Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Repeat if required. If irritation persists get medical attention.

Skin Contact:

Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.

Ingestion:

Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Get medical aid.

Inhalation:

If unconscious, place in recovery position and consult a doctor. If symptoms persist, call a physician.

Notes to Physician:

Treatment based on judgment of attending physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Flood with water for extinguishing agent. CO2, dry chemical, alcohol resistant

Date: November 7, 2016

SDS: Stark Industrial - AUTO DISH DETERGENT



SAFETY DATA SHEET

AUTO DISH DETERGENT

	foam
Unsuitable extinguishing media:	High volume/water jet.
Special exposure hazards	Thermal decomposition releases irritating gases.
Special safety equipment:	Self-contained positive pressure breathing apparatus and protective clothing.
Fire and explosion	Not flammable. Not an explosive hazard.
Further information	Keep containers and surrounding cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately with absorbent and dispose of waste safely.

Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Information about fire and explosion protection:

Keep respiratory protective device available.

No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage: Acids, oxidizers, reducing agents.

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Protect from humidity and water.

Unsuitable material for receptacle: steel and aluminium.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Do not store together with strong acids.

Store away from oxidizing agents and foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Keep container tightly sealed.



SAFETY DATA SHEET

AUTO DISH DETERGENT

Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Use local exhaust or dilution ventilation.
Respiratory protection:	Not normally required.
Hand protection:	Chemical resistant gloves.
Eye protection:	Safety goggles or full face shield.
Skin protection:	Use body-covering impervious clothing.
Working hygiene:	Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.
Exposure Guidelines:	

Trisodium Nitrotriacetate: AWEG TWA 1mg/m³ total dust 8 hour ACGIH Ceiling 2 mg/m³ dust 15 minute STEL

Sodium Hydroxide: ACGIH Ceiling 2 mg/m³ OSHA PEL (TWA) 2 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Liquid	Odour	Mild
Appearance	Clear liquid.	Odour Threshold	No data available.
Colour	Red	Remarks/Method	
Property	Values		
pH	14 ± 0.2	None known	
Melting/Freezing Point	No data available	None known	
Boiling Point/Range	No data available	None known	
Flash Point	Not applicable.	None known	
Evaporation Rate	Similar	None known	
Flammability (solid, gas)	Not flammable	None known	
Flammability Limit in Air:			
Upper Limit	No data available	None known	
Lower Limit	No data available	None known	
Vapour Pressure	No data available	None known	
Vapour density	No data available	None known	
Specific Gravity	1.26 g/cm ³		
Water Solubility	Soluble in water.	None known	
Solubility Other Solvents	No data available	None known	
Partition Coefficient:			
n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition	No data available	None known	
Temperature			
Kinematic Viscosity	No data available	None known	
Dynamic Viscosity	No data available	None known	
Explosive Properties	No data available	None known	



SAFETY DATA SHEET

AUTO DISH DETERGENT

Oxidizing Properties No data available None known

Other Properties:

Softening Point No data available
VOC Content % No data available
Particle Size No data available
Particle Size Distribution No data available

10. STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.
Chemical stability Stable under recommended handling and storage conditions (see section 7).
Thermal decomposition/conditions to avoid: No decomposition if used and stored according to specifications.
Possibility of hazardous reactions Hazardous polymerization will not occur.
Conditions to avoid Direct sunlight. Extremely high or low temperatures. Contact with metallic substances.
Hazardous decomposition products Carbon oxides (CO, CO₂). Sodium oxides.
Incompatible Materials Metals such as aluminum. Reducing agents, oxidizing agent. Strong acids.
Hazardous polymerization Will not occur

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Harmful if swallowed.

LD/LC50 values relevant for classification:

Trisodium Nitrotriacetate CAS# 139-13-9: LD50 (Oral, rat): 1,300 mg/kg

Sodium Hydroxide CAS# 1310-73-2: LD50 (Oral, rat): 500 mg/kg

Information on likely routes of exposure:

On the skin: Causes severe skin corrosion and eye damage. (PH: 14.0).

On the eye: Causes serious eye damage. (PH: 14.0)

Inhalation: May cause burns to the respiratory tract.

Ingestion: May cause burns to the digestive tract.

Delayed and immediate effects as well as chronic effects from short and long term exposure:

Respiratory or Skin Sensitization: Not classified as hazardous.

Additional toxicological information:

Carcinogenicity:

Chemical Name Trisodium Nitrotriacetate

IARC 2B

NTP Reasonably anticipated to be a human carcinogen.

Reproductive Toxicity: Not classified as hazardous.

Specific Target Organ Toxicity

Single Exposure: Not classified as hazardous.

Specific Target Organ Toxicity

Repeated Exposure: Not classified as hazardous.

Aspiration Hazard: Not an aspiration hazard.



SAFETY DATA SHEET

AUTO DISH DETERGENT

12. ECOLOGICAL INFORMATION

Toxicity:	Not classified
Persistence and Degradability:	Not available
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available.
Other Adverse Effects	Not available.
Other Information:	All of the organic components of this product are readily biodegradable.

13. DISPOSAL

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

14. TRANSPORTATION INFORMATION

US DOT: Regulated material

Proper Shipping Name: Caustic alkali liquid, N.O.S.

Contains (Sodium Hydroxide)

Hazard Class: 8

ID Number: UN 1719

Packing Group: II



Canadian T.D.G.: Regulated Material (quantity under 1litres can be shipped Limited Quantity)

Proper Shipping Name: Caustic Alkali liquid, N.O.S.

Contains (Sodium Hydroxide)

Hazard Class: 8

ID Number: UN 1719

Packing Group: II



Water Transportation (IMDG): Regulated Material

Proper Shipping Name: Caustic alkali liquid, N.O.S.

Contains (Sodium Hydroxide)

Date: November 7, 2016

SDS: Stark Industrial - AUTO DISH DETERGENT



SAFETY DATA SHEET

AUTO DISH DETERGENT

Hazard Class: 8
ID Number: UN 1719
Packing Group: II



Air Transportation (IATA): Regulated Material

Proper Shipping Name: Caustic alkali liquid, N.O.S.
Contains (Sodium Hydroxide)
Hazard Class: 8
ID Number: UN 1719
Packing Group: II



15. REGULATORY INFORMATION

Occupational Health & Safety Regulations:

WHMIS 1988 Classification: Class D - Division 2B, Class E



OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	-
PICCS	Complies
AICS	Complies

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



SAFETY DATA SHEET

AUTO DISH DETERGENT

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals. NTA in this product is labeling exempt NSRL or no significant risk level.

HMIS III Rating

Health : 3 Hazard

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Personal Protection : C

SDS US (GHS HazCom 2012 and WHMIS 2015)

16. OTHER INFORMATION

Prepared By: Technical Department

Issuing Date: November 7, 2016

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet