



NORSTAR CHEMICAL PRODUCTS INC.

**MATERIAL SAFETY DATA SHEET
N306 / N307 / N308 / N309**

Canutec 1-613-996-6666 (24 hours)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product identification : N306 / N307 / N308 / N309
Product name : Starclean
Chemical family : Mixture
Supplier / Manufacturer : Auto-Chem Inc.
33 de Lyon
Repentigny, QC, Canada
J5Z 4Z3
Tel : 450-654-9292
Fax : 450-654-0633
www.autochem.com
Contact : Jean Dagenais

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS</u>	<u>Percentage</u>	<u>Exposure limits</u>
Sodium nitrilotriacetate monohydrated	18662-53-8	1 – 5	LD50 1450 mg/kg, rat, oral LD50 >10000 mg/kg, rabbit, dermal TLV TWA 1mg/m ³ , 8 hrs STEL TWA 2 mg/m ³ , 15 min.
Ethoxylated alcohol	68131-39-5	1 – 5	LD50 >3200 mg/m ³ , rat, oral LD50 >2000 mg/m ³ , rabbit, dermal
Sodium octyl sulfate	142-31-4	1 – 5	No data.
Trisodium phosphate	10101-89-0	1 – 5	LD50 7400 mg/kg, rat, oral LD50 7940 mg/kg, rabbit, dermal
Sodium amphocarboxylates	68610-44-6	1 – 5	LD50 24.3 ml/kg, rat, oral
Sodium metasilicate	6834-9-0	1 – 5	No data.

3. HAZARDS IDENTIFICATION

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects :

Eye contact : Liquid can cause an irritation to the eyes. Symptoms include itching, tearing, redness and inflammation.

Skin contact : Liquid can cause a light irritation, redness or burn of the skin.

Inhalation : Overexposure to vapours can cause irritation.

Ingestion : Ingestion is not probable during normal handling. Harmful if swallowed.

Potential chronic health effects :

Eye contact : None known.

Skin contact : None known.

Inhalation : None known.

Ingestion : None known.

Contains a component that is a suspected human carcinogen (IARC).

4. FIRST AID MEASURES

- Eyes : Rinse immediately with water or a saline solution for 15 to 20 minutes, lifting upper and lower eyelids. Remove contact lenses. Obtain medical attention.
- Skin : In case of direct contact, rinse with running water 15 to 20 minutes. Remove contaminated clothing and wash with soap and water. Obtain medical attention if symptoms appear. It is recommended to wash exposed areas with soap and water.
- Inhalation : Remove person to fresh air. In case of respiratory failure, give artificial respiration. In case of respiratory distress, obtain medical attention.
- Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. In case of respiratory or cardiac arrest, start cardio-pulmonary resuscitation and obtain medical attention.

5. FIRE FIGHTING MEASURES

- Flash point : Not flammable.
- Auto-ignition temperature : Not applicable.
- Flammability limits – air (%) : Not applicable.
- Extinguishing media : According to the cause of fire.
- Protective equipment : Firefighters should wear appropriate protection equipment and autonomous breathing apparatus.
- Hazardous combustion materials : Carbon oxides, nitrogen oxides.
- Recommendations: Move containers away from fire area if safe to do so. Do not disperse product with high pressure water jets. Dam water run-off. Cool containers with water.
- Remarks: Organic components may ignite once water has evaporated.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protection equipment. Restrict spill area to qualified personnel. Insure adequate ventilation. Do not touch spilled product. Prevent spilled product from entering sewers or waterways. Stop leak if safe to do so.

- Small spill : Dam if necessary. Pump (if possible) and store in an appropriate container. Contain and absorb product with an absorbent material compatible with product. Store residues in closed containers and identify for elimination.
- Large spill : Dam if necessary. Pump (if possible) and store in an appropriate container. Contain and absorb product with an absorbent material compatible with product. Store residues in closed containers and identify for elimination.

7. HANDLING AND STORAGE

- Handling : Do not breathe vapours or aerosols. Prevent contact with eyes or skin by wearing appropriate equipment. Prevent contact with incompatible materials. Wash thoroughly after handling. Wash contaminated clothing before reuse. Empty containers may contain residues. Dispose according to regulations.
- Storage : Store in a cool, dry and well ventilated area away from incompatible products. Prevent freezing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls : General ventilation is recommended.

Personal protection equipment for routine handling :

Eye : Splash goggles.
Skin : Long sleeves clothes or lab coat.
Gloves : Chemicals resistant gloves.
Inhalation : If necessary, use a NIOSH/MSHA approved mask.

Personal protection equipment for spills :

Eyes : Splash goggles.
Skin : Impervious clothes.
Gloves : Chemicals resistant gloves.
Inhalation : NIOSH/MSHA approved mask. If in an enclosed area, an autonomous breathing apparatus is recommended.

Note : These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.
Colour : Orange.
Odour : Bitter.
pH @ 1% : 10.25
Relative density (g/cm³) : 1.00
Boiling point : 100 C
Freezing point : 0 C
Vapour pressure : Not determined.
Volatiles (weight) : Not determined.
Solubility (water) : Soluble.
VOC (%) : Not determined.
Viscosity : Not determined.

10. STABILITY AND REACTIVITY

Chemical stability : Stable.
Hazardous polymerization : None known.
Conditions to avoid : None known.
Materials to avoid : Alkalis, acids, strong oxidants.
Dangerous decomposition products : Carbon oxides.

11. TOXICOLOGICAL INFORMATION

<u>Ingredient</u>	<u>CAS</u>	<u>Percentage</u>	<u>Exposure limits</u>
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Potential acute health effects :

Eye contact : Liquid can cause an irritation to the eyes. Symptoms include itching, tearing, redness and inflammation.

Skin contact : Liquid can cause a light irritation, redness or burn of the skin.

Inhalation : Overexposure to vapours can cause irritation.

Ingestion : Ingestion is not probable during normal handling. Harmful if swallowed.

Potential Chronic Health Effects

Carcinogenic effects: Contains a component that is a suspected human carcinogen (IARC).

Mutagenic effects: None known.

Teratogenic effects: None known.

12. ECOLOGICAL INFORMATION

Ingrédient	CAS	Test	Species
Sodium nitrilotriacetate monohydrated	18662-53-8	EC50 780 mg/l, 48 hrs	Daphnia magna
		LC50 98 mg/l, 96 hrs	Oncorhynchus mikyss
		LC50 312 mg/l, 96 hrs	Lepomis macrochirus
		EC50 780 mg/l, 96 hrs	Chlorella vulgaris
		EC50 331 mg/l, 96 hrs	Navicula

Do not allow product or firefighting water run-off to enter sewers or waterways. Some components are toxic to aquatic life. Some components have a potential for bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Waste disposal method : Dispose according to municipal, provincial and federal regulations.

Contaminated packaging : According to municipal, provincial and federal regulations.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

WHIMS: D2B Toxic materials with other effects.
E Corrosive materials.

DSL : All components of this product are either on the Domestic Substance List (DSL), the Non-Domestic Substance List (NDSL) or exempt.

TSCA : U.S. TSCA Inventory Status : All components of this product are either on the Toxic Substances Control Act Inventory List or exempt.

16. OTHER INFORMATION

Prepared by : Auto-Chem Inc.

Date : Sept. 2015

Notice to reader :

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