



NORSTAR CHEMICAL PRODUCTS INC.

**MATERIAL SAFETY DATA SHEET
N406 / N407 / N408 / N409**

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

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product identification : N406 / N407 / N408 / N409
Product name : Starwash
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 metasilicate	6834-92-0	5 – 10	LD50 770 mg/kg, rat, oral

3. HAZARDS IDENTIFICATION

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

Potential acute health effects :

Eye contact : Direct eye contact may cause temporary discomfort with mild redness and dryness.
Skin contact : A single prolonged exposure (24 to 48 hours) causes no known adverse effect.
Inhalation : No irritation to respiratory passages is expected from relatively short exposures of less than 8 hours.
Ingestion : Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

Potential chronic health effects :

Eye contact : None known.
Skin contact : None known.
Inhalation : None known.
Ingestion : Harmful if swallowed.

4. FIRST AID MEASURES

Eyes : Rinse immediately with water or saline solution 15 to 20 minutes by 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 develop. 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. If discomfort occurs, obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash point : Non flammable.
Auto-ignition temperature : Not applicable.
Flammability limits – air (%) : LEL: UEL:
Extinguishing media : Carbon dioxide, water spray. Dry chemical foam water can be used to cool exposed containers.
Protective equipment : Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
Hazardous combustion materials : Silicon oxides, carbon oxides, phosphorous oxides.
Recommendations : Remove containers from area if safe to do so. Do not disperse with high pressure water jets. Dam water run-off. Cool containers with water.
Notes : Organic components can ignite once water has evaporated.

6. ACCIDENTAL RELEASE MEASURES

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

Small spill : Dam area if necessary. Pump (if possible) and store in appropriate container. Contain and absorb product with suitable absorbing material. Store residues in closed containers identified for elimination.

Large spill : Dam area if necessary. Pump (if possible) and store in appropriate container. Contain and absorb product with suitable absorbing material. Store residues in closed containers identified for elimination.

7. HANDLING AND STORAGE

Handling : So not breathe vapours or aerosols. Avoid contact with eyes or skin by wearing appropriate equipment. Avoid contact with incompatible materials. Wash after handling the product. Wash contaminated clothing before reuse. Empty containers may contain residue. Dispose according to existing regulations.

Storage : Store in a cool and dry area, well ventilated and away from incompatible materials. Prevent from freezing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls : General ventilation is recommended.

Personal protection equipment for routine handling :

Eye : Safety glasses.
Skin : Long sleeves.
Gloves : Impervious gloves.
Inhalation : If needed, use a NIOSH/MSHA approved mask.

Personal protection equipment for spills :

Eyes : Safety glasses or goggles.
Skin : Long sleeves.
Gloves : Impervious gloves.
Inhalation : If needed, use a NIOSH/MSHA approved mask. If working in an enclosed space, an autonomous breathing mask is required.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid
Colour : Blue / green
Odour : Detergent
pH @ 100% : 10.39
Relative density (g/cm³) : 1.01
Boiling point : 100 C
Freezing point : 0 C
Vapour pressure : Not determined.
Volatiles (weight) : Not determined.
Solubility (water) : Dispersible.
VOC (%) : Not determined.

10. STABILITY AND REACTIVITY

Chemical stability : Stable.
Hazardous polymerization : Will not occur.
Conditions to avoid : None known.
Materials to avoid : Alkalis, acids, strong oxidants.
Dangerous decomposition products : Silicone oxides, carbon oxides, phosphorous oxides.

11. TOXICOLOGICAL INFORMATION

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Ingestion : Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

Potential chronic health effects :

Carcinogenic effects : Contains impurities showing risks of cancer in animal studies.
Mutagenic effects : None known.
Teratogenic effects : None known.

12. ECOLOGICAL INFORMATION

Do not allow product or water run-off to enter sewers or waterways. Some components are toxic to aquatic life. Some components have a slight 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 Materials having other toxic effects.

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 :

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Auto-Chem makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Auto-Chem's control and therefore users are responsible to verify this data under their own operation conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.