



NORSTAR CHEMICAL PRODUCTS INC.

**MATERIAL SAFETY DATA SHEET
N105 / N106 / N107 / N108 / N109**

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

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product identification : N105 / N106 / N107 / N108 / N109
Product name : Stargloss wax
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>
Mineral spirits	64742-88-7	10 – 30	LD50 >6216 mg/kg, rat, oral LD50 >3108 mg/kg, rat, dermal LC50 >14.1mg/l/4 hrs, rat TWA 100 ppm (ACGIH)
Petroleum naphtha	64742-48-9	7 – 13	TLV TWA 1200 mg/m3, ACGIH
Kaolin clay	66402-68-4	5 – 10	PEL TWA 10 mg/m3, OSHA TLV TWA 10 mg/m3, ACGIH
Tall oil fatty acid	61790-12-3	1 – 5	TWA 5 mg/m3 ACGIH STEL 10 mg/m3 ACGIH TWA 5 mg/m3 OSHA LD50 >10000 mg/kg, rat, oral LD50 >2000 mg/kg, rabbit, dermal

3. HAZARDS IDENTIFICATION

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

Potential acute health effects :

Eye contact : Vapours are moderately irritating to the eyes.
Skin contact : Not a primary skin irritant after exposure of short duration.
Inhalation : Vapours are moderately irritating to respiratory passages. In rare case, may sensitize heart muscle causing heart arrhythmia.
Ingestion : Liquid when accidentally aspirated into lungs can cause a severe inflammation of the lungs.

Potential chronic health effects :

Eye contact : None known.
Skin contact : Dermatitis, may defat the skin, allergic reactions.
Inhalation : Prolonged or repeated inhalation can cause coughing, shortness of breath, dizziness and intoxication, nausea and central nervous system depression.
Ingestion : None known.

4. FIRST AID MEASURES

- Eyes : Rinse immediately with water or saline solution 15 to 20 minutes, lifting upper and lower eyelids. Remove contact lenses. Get medical attention without delay.
- Skin : In case of direct contact, rinse with running water 15 to 20 minutes. Wash thoroughly with soap and water. Remove contaminated clothing and wash with soap and water. If irritation persists, obtain medical attention.
- Inhalation : Remove person to fresh air. In case of respiratory failure, give artificial respiration. In case of respiratory distress, obtain medical attention.
- Ingestion : In case of ingestion, obtain medical attention immediately. Do not induce vomiting, guard against aspiration into the lungs. 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.
- Note to physician: Main hazard following accidental ingestion is aspiration of the liquid into the lungs, producing chemical pneumonitis. Cardiac arrhythmias have been reported with solvent exposure. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered.

5. FIRE FIGHTING MEASURES

- Flash point : Not applicable.
- Auto-ignition temperature: Not applicable.
- Flammability limits – air (%): LEL: UEL:
- Extinguishing media : Carbon dioxide (CO₂), alcohol foam, dry chemical powder or water fog, according to the nature of the fire. Dry chemical powder or water can be used to cool containers. Do not use water except as a fog.
- Protective equipment : Fire fighters should wear full protective clothing, including self contained breathing equipment.
- Hazardous combustion materials : Carbon oxides, nitrogen oxides, silicon dioxide.
- Remarks : Organic components may ignite once water has evaporated.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. Remove contaminated clothing. Shut off leaks if safe to do so. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or waterways using sand, earth or other appropriate barriers.

- Small spill : For less than one drum, transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
- Large spill : For more than one drum, transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

7. HANDLING AND STORAGE

Handling : Avoid breathing vapours and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Use good personal hygiene.

Storage : Store in a cool, dry, well ventilated area, away from heat and cold. Do not allow to freeze.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls : Mechanical ventilation is recommended for all indoor situations to control fugitive emissions.

Personal protection equipment for routine handling :

Eye : Chemical safety goggles and /or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.

Skin : In confined spaces or where the risk of skin exposure is much higher, impervious clothing should be worn.

Gloves : Impervious gloves, Viton gloves, polyvinyl alcohol gloves.

Inhalation : If exposure exceeds occupational exposure limits, use appropriate NIOSH-approved respirator.

Personal protection equipment for spills :

Eye : Chemical safety goggles and /or full face shield to protect eyes.

Skin : In confined spaces or where the risk of skin exposure is much higher, impervious clothing should be worn.

Gloves : Impervious gloves, Viton gloves, polyvinyl alcohol gloves.

Inhalation : Use a NIOSH-approved chemical cartridge respirator with organic vapour cartridges or use a NIOSH-approved supplied-air respirator.

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 : Opaque liquid.
Colour : Beige.
Odour : Fruity.
pH @ 1% : 7.86
Relative density (g/cm³) : 0.942
Boiling point : Not determined.
Freezing point : Not determined.
Vapour pressure : Not determined.
Volatiles (weight) : Not determined.
Solubility (water) : Dispersible.
VOC (%) : Not determined.
Viscosity : 163000 cps, Brookfield, spindle 4, 1 rpm.

10. STABILITY AND REACTIVITY

Chemical stability : Stable.
Hazardous polymerization : None known.
Conditions to avoid : None known.
Materials to avoid : Strong oxidants, strong acids and alkalis.

Dangerous decomposition products :

Carbon oxides, nitrogen oxides, silicon dioxide.

11. TOXICOLOGICAL INFORMATION

Ingredient	CAS	Percentage	Exposure limits
Mineral spirits	64742-88-7	10 – 30	LD50 >6216 mg/kg, rat, oral LD50 >3108 mg/kg, rat, dermal LC50 >14.1mg/l/4 hrs, rat TWA 100 ppm (ACGIH)
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Potential acute health effects :

Eye contact : Vapours are moderately irritating to the eyes.

Skin contact : Not a primary skin irritant after exposure of short duration.

Inhalation : Vapours are moderately irritating to respiratory passages. In rare case, may sensitize heart muscle causing heart arrhythmia..

Ingestion : Liquid when accidentally aspirated into lungs can cause a severe inflammation of the lungs.

Potential chronic health effects :

Carcinogenic effects: None known.

Mutagenic effects: None known.

Teratogenic effects: None known.

12. ECOLOGICAL INFORMATION

Ingredient	CAS	Test	Species
Tall oil fatty acid	61790-12-3	EL50 > 1000 mg/l/48 hrs LL50 > 1000 mg/l/96 hrs EC50 >310 mg/l/16 hrs	Daphnia magna Pimephales promelas Bacterium

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Spill areas must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life.

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 : D2A Very toxic material with other effects

D2B Toxic material with other 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.