



NORSTAR CHEMICAL PRODUCTS INC.

**MATERIAL SAFETY DATA SHEET  
N504 / N505 / N506**

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

**1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

Product identification : N504 / N505 / N506  
Product name : Starclear  
Synonyms : Windshield cleaner  
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>
Isopropanol	67-63-0	5 – 10	LD50 >4710 mg/kg, rat, oral LD50 >12870 mg/kg, rabbit, dermal LC50 12000 ppm/8hrs, rat TWA 200 ppm (ACGIH) STEL 400 ppm (ACGIH)
Glycol ether EB	111-76-2	1 – 5	LD50 917 mg/kg, rat, oral LC50 450 ppm/4hrs, rat TLV TWA 20 ppm (ACGIH) PEL TWA 50 ppm (OSHA) REL TWA 5 ppm (NIOSH)

**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 effects.  
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 : Can cause skin dryness.  
Inhalation : None known.  
Ingestion : None known.

#### 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 if irritation develops.
- Skin : In case of direct contact, rinse with running water 15 to 20 minutes. Remove contaminated clothing and wash 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 determined
- Flammability limits – air (%) : Not determined
- Extinguishing media : Carbon dioxide (CO<sub>2</sub>), water spray, according to the nature of the fire. Dry chemical powder or water can be used to cool containers.
- Protective equipment : Fire fighters should wear full protective clothing, including self contained breathing equipment.
- Hazardous combustion materials : Carbon oxides.

#### 6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protection equipment.

- Small spill : Collect for elimination. Clean up remaining materials from spill with suitable absorbent.
- Large spill : Prevent entry into sewers or streams. Dike if needed. Pump (if possible) and store in a suitable container. Clean surfaces to reduce risk of slippage.

#### 7. HANDLING AND STORAGE

- Handling : Safety glasses and gloves.
- Storage : Keep container closed. Do not freeze.

#### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls : General ventilation of work area is recommended.

Personal protection equipment for routine handling :

- Eye : Use adequate protection – safety glasses at a minimum.
- Skin : Long sleeve clothes.
- Gloves : Latex, nitrile, rubber, PVC.
- Inhalation : Not required for routine handling.

Personal protection equipment for spills :

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MSDS N504 / N505 / N506  
Starclear Windshield cleaner

Eyes : Use adequate protection – safety glasses at a minimum.  
Skin : Long sleeve clothes.  
Gloves : Latex, nitrile, rubber, PVC.  
Inhalation : Mask with approved organic vapour cartridge.

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 : Transparent liquid.  
Colour : Green.  
Odour : Lime.  
pH @ 1% : 9.1  
Relative density (g/cm<sup>3</sup>) : 0.97  
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 : No.  
Conditions to avoid : None known.  
Materials to avoid : Strong acids, strong oxidants.  
Dangerous decomposition products : Carbon monoxide, carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

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### Potential Chronic Health Effects

Carcinogenic effects: None known.

MSDS N504 / N505 / N506  
Starclear Windshield cleaner

Mutagenic effects: None known.  
Teratogenic effects: None known.

## 12. ECOLOGICAL INFORMATION

No data available.

## 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 Materials causing 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 :

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