

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Identity (As Used on Label and List): North Star
Product Class: Window Cleaner
Emergency Telephone Number: 800-255-3924
Telephone Number for Information: 800-950-1975
Distributed By:
Dalco
300 5th Ave NW
New Brighton, Minnesota 55112

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity):

Chemical	Common Name(s)	%
A	Isopropyl Alcohol CAS #67-63-0	10 - 30
B	Propylene Glycol Monomethyl Ether CAS #107-98-2	3 - 7
C	Water CAS #7732-18-5	60 - 100

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odor: Blue liquid, alcohol odor.

Primary Hazards: Flammable, irritant.

Potential Health Hazards

Route(s) of Entry: **Skin Absorption:** X **Ingestion:** **Inhalation:** X

Eye: May cause irritation on contact.

Skin: May cause irritation on prolonged or repeated contact.

Ingestion: May be harmful if swallowed.

Inhalation: Overexposure to vapors may be harmful.

Signs and Symptoms of Exposure: Excessive exposure may cause headaches or narcotic effects.

Carcinogenicity: NTP? No **IARC Monographs?** No

OSHA Regulated? No

Target Organ (s): Skin, eyes, respiratory system.

Medical Conditions Generally Aggravated by Exposure: N. Av.

Health Hazards, Chronic: N. Av.

SECTION IV - FIRST AID MEASURES

Emergency and First Aid Procedures:

If Swallowed: Call a physician immediately. **Eye Contact:** Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. **Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.

Sources Used: Raw material data, general toxicology from the trade for similar products.

SECTION V - FIRE FIGHTING MEASURES

Flammability: Flammable **Autoignition Temperature:** N. Av.

Flash Point (method used): 80°F (27°C) PMcc

Flammable Limits: N. Av. **LEL** N. Av. **UEL** N. Av.

Extinguishing Media

Water?	Foam?	Water Fog? X
Alcohol Foam? X	CO₂? X	Dry Chemical? X
Vaporizing Liquid? X	Other?	

Special Fire Fighting Procedures: Water hose stream may spread fire. Use water spray to keep containers cool.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel over distances to ignition sources (heat, flames, sparks, pilot lights, etc) where ignition may occur. Ground all equipment.

TDG Flammability Classification: Unknown

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: N. Av.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled:

Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide ventilation. For large spills, dike and contain spill with inert material (sand, earth, etc.). Collect spill with absorbent material (example; floor-dri). For small spills, wipe up spill with mop or rag. Dispose of or treat mop or rag properly to avoid fire.

SECTION VII - HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing:

Do not store near heat, sparks or flame.

Other Precautions: Keep out of reach of children. Keep from freezing.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Types): Not required. Avoid breathing spray mist.

Ventilation: **Local Exhaust:** Not required **Special:** Not required

Mechanical (General): As required to keep vapor level below TLVs and PELs (Section XI) **Other:** Not required

Protective Gloves: Natural rubber or synthetic.

Eye Protection: Approved safety goggles or glasses. **Footwear:** Not required

Other Protective Clothing or Equipment: Not required

Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Approximately 131 - 212°F

pH: 11.0

Specific Gravity (H₂O) = 1: .971

% Volatile: > 95

Vapor Density (Air = 1): > 1

Odor Threshold: N. Av.

Evaporation Rate (Butyl Acetate = 1): N. Av.

Oil/Water Distribution

Solubility in Water: Complete

Coefficient: N. Av.

Vapor Pressure (MM HG): N. Av.

Melting Point: N. Ap.

SECTION X - STABILITY AND REACTIVITY

Stability: **Unstable:** **Stable:** X

Conditions to Avoid: N. Ap.

Incompatibility (materials to avoid): Oxidizing material, anhydride, isocyanate monomer and organometallic.

Hazardous Decomposition or By-products: N. Av.

Hazardous Polymerization: **May occur:** **Will not occur:** X

Conditions to Avoid: N. Ap.

SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	400 ppm	400 ppm	N. Av.	5,840 mg/kg (rat, oral)	12,000 ppm (rat, 8 hr.)
B	100 ppm	100 ppm	N. Av.	6,600 mg/kg (rat, oral)	> 200 mg/l (rat, 1 hr.)
C	None	None	N. Av.	N. Av.	N. Av.

Teratogen, Mutagen, Reproductive Toxin Status: No

Toxicologically Synergistic Products: N. Av.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicological Information: N. Av.

Chemical Fate Information: N. Av.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewerred, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.

RCRA Hazard Class: D001, characteristic flammable.

SECTION XIV - TRANSPORT INFORMATION

Shipping Classification: flammable liquid, N.O.S. (Containing isopropanol), class 3

UN Number: 1993

Packing Group: III

SECTION XV - PREPARATION DATA

Prepared By: James Tracy

Telephone Number: 651-481-1900

Date: 1/02

SECTION XVI - REGULATORY INFORMATION

US Federal Regulations

TSCA Status: All ingredients listed.

CERCLA Reportable Quality: N. Av.

SARA Title III

Section 302 Extremely Hazardous Chemicals: None

Section 311/312 Hazard Category: Immediate health, fire

Section 313 Toxic Chemicals: None

State Regulations

NOTICE STATE OF CALIFORNIA

Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product.

International Regulations

WHMIS Controlled Product Hazard Class: B2, D2B

SECTION XVII - OTHER INFORMATION

None

N. Ap. - Not Applicable; N. Av. - Not Available

NFPA SYSTEM

1 A. Health Hazard 3 A. Fire Hazard 0 A. Reactivity Hazard

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.