Safety Data Sheet (SDS)

SECTION 1: PRODUCT AND COMPANY INFORMATION

SUPPLIER / DISTRIBUTOR
DSI Automotive Products
1271 Fayland Dr.
Fargo, ND 58102
dsi@dsiautomotive.com
Telephone: (701) 282-8451
Emergency Telephone: 800-535-5053

PRODUCT IDENTIFIER

True North Chemicals See-Thru Glass Cleaner

OTHER COMMON NAMES OR SYNONYMS

Section 2: Hazard(s) Identification

GHS CLASSIFICATION

HEALTH HAZARDS
Flammable Liquids - Category 4
Acute toxicity, Oral - Category 4
Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation - Category 2A
Specific target organ systemic toxicity - single exposure, Central nervous system - Category 3

GHS LABEL ELEMENTS
Signal Word: **Warning**

HAZARD STATEMENT(S)
Flammable liquid. Causes serious eye irritation and skin irritation.

PRECAUTIONARY STATEMENTS

PREVENTION
Wear chemical-splash goggles and chemical-resistant protective gloves. Avoid contact with eyes, skin, and clothing. Wash hands and affected areas thoroughly after handling. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed.

RESPONSE
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical attention. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. If skin irritation occurs and persists,

get medical attention. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. If conscious, dilute by drinking up to a cupful of milk or water as tolerated.

STORAGE
Store in a well-ventilated place. Keep cool.

DISPOSAL
Dispose of contents in accordance with all federal, state and local applicable laws and regulations.

OTHER HAZARDS
keep out of reach of children. For commercial and industrial use only.

Section 3: Composition/Information on Ingredients

The identity of individual components of this mixture is proprietary information and is regarded to be a trade secret and is withheld in accordance with paragraph (i) of §1910.1200.

Ingredient	% by Wt.
Water	50-80%
Ethylene Glycol Ethers	10-23%
Isopropyl Alcohol	0-20%
Conditioners	0-10%

Section 4: First-Aid Measures

Consult a physician/doctor if necessary. Inhalation of high vapor concentrations can cause CNS-depression and narcosis. Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Show this safety data sheet to the doctor in attendance.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical attention.

INHALATION: No specific first aid measures are required.

SKIN CONTACT: Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. If skin irritation occurs and persists, get medical attention. Wash contaminated clothing before reuse.

INGESTION: Rinse mouth. If conscious, dilute by drinking up to a cupful of milk or water as tolerated.

Most important symptoms/effects, acute and delayed:

POTENTIAL ACUTE HEALTH EFFECTS
Causes serious eye irritation and skin irritation.

OVER-EXPOSURE SIGNS/SYMPTOMS
No information available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
No information available.

Section 5: Fire-Fighting Measures

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Although this product has a flash point below 200°F, it is an aqueous solution which has been tested and shown not to sustain combustion

SUITABLE EXTINGUISHING MEDIA: Water, Dry Chemical, CO2 or Foam suitable for fire.

UNSUITABLE EXTINGUISHING MEDIA: No restrictions based on chemical hazards.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Carbon oxides.

SPECIAL FIRE FIGHTING PROCEDURES: Select extinguisher and methods based on fire size and type.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Wear SCBA and full protective gear as conditions warrant.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Eliminate all ignition sources. Evacuate unprotected personnel from area. Wear personal protection including rubber boots. See section 8. Ventilate area if needed. Be careful not to slip. Wash thoroughly after clean-up.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Eliminate all ignition sources. Small spills may be wiped up and rinsed with water. For larger spills, dike to contain. Pump to labeled container or absorb spillage and scoop up with inert absorbent material. After spill collection, rinse area with water and follow with normal clean-up procedures.

ENVIRONMENTAL PRECAUTIONS:

Prevent spill from entering drain, storm sewer or surface waterway. Prevent water and soil contamination.

Section 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Follow all label directions. Instruct personnel about proper use, hazards, precautions, and first aid measures. Avoid contact with eyes, skin and clothing. Take off contaminated clothing and wash it before reuse. Do not taste or swallow. Product residue may remain on or in empty containers. Handle carefully to avoid damaging container.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container closed when not in use. Store in a well-ventilated place. Keep away from heat, spark and flame. Storage at ambient temperatures in a dry area out of direct sunlight. Protect from freezing. Rotate stock regularly. Keep away from food and drink. Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

CONTROL PARAMETERS

Ingredients	CAS	Value type (Form of exposure)	Control parameters Permissible concentration	Basis
2-Butoxyethanol	111-76-2	TWA	20ppm	US (ACGIH)
		IDLH	700ppm	NIOSH
		TWA	50ppm 240mg/m3	US (OSHA)
Isopropyl Alcohol	67-63-0	TLV	200 ppm 492 mg/m3	ACGIH
		STEL	400 ppm 984 mg/m3	ACGIH
		PEL	400 ppm 980 mg/m3	OSHA
		IDLH	2000 ppm	OSHA
		REL	400 ppm 980 mg/m3	NIOSH
		STEL	500 ppm 1225 mg/m3	NIOSH

ENGINEERING CONTROLS
None required. General room ventilation is typically adequate.

INDIVIDUAL PROTECTION MEASURES

EYE/FACE PROTECTION
Safety goggles (indirect-vented or non-vented) and an eye-wash station.

SKIN / BODY PROTECTION
Appropriate protective clothing should be worn to prevent skin contact.

HAND PROTECTION
Chemical-resistant protective gloves (rubber or neoprene).

RESPIRATORY PROTECTION
None required

HYGIENE MEASURES
Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9: Physical and Chemical Properties

PHYSICAL STATE
Liquid

FORM
Liquid

COLOR
Blue

ODOR
Solvent

ODOR THRESHOLD
No data available.

PH
No data available.

FREEZING POINT
No data available.

BOILING POINT
No data available.

FLASH POINT
~110F

EVAPORATION RATE
No data available.

FLAMMABILITY (SOLID, GAS)
No data available.

FLAMMABILITY LIMIT - UPPER (%)
No data available.

FLAMMABILITY LIMIT - LOWER (%)
No data available.

EXPLOSIVE LIMIT - UPPER (%)
No data available.

EXPLOSIVE LIMIT - LOWER (%)
No data available.

VAPOR PRESSURE
No data available.

VAPOR DENSITY
No data available.

RELATIVE DENSITY
No data available.

SOLUBILITY IN WATER
Insoluble in water

SOLUBILITY (OTHER)
No data available.

PARTITION COEFFICIENT (N-OCTANOL/WATER)
No data available.

AUTO-IGNITION TEMPERATURE
No data available.

DECOMPOSITION TEMPERATURE
No data available.

VISCOSITY
No data available.

Section 10: Stability and Reactivity

REACTIVITY
No hazard.

CHEMICAL STABILITY
Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS
Under normal conditions of storage and use, hazardous reactions will not occur.

CONDITIONS TO AVOID
Heat, flames and sparks.

INCOMPATIBLE MATERIALS
Direct mixing with other chemicals. Mix only with water.

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon oxides, unburned hydrocarbons

Section 11: Toxicological Information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

Based on test data and/or information on the components, this material may produce the following health effects:

INHALATION: None known.

SKIN CONTACT: Causes skin irritation. May cause discomfort, drying and redness.

EYE CONTACT: Causes serious eye irritation. May cause pain, redness and watering.

INGESTION: May cause irritation, nausea, vomiting and diarrhea.

TOXICOLOGICAL DATA
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
2-Butoxyethanol	Dermal	Rabbit	LD50 400 mg/kg
2-Butoxyethanol	Inhalation-Vapor (4 hours)	Rat	LC50 2.2 mg/l
2-Butoxyethanol	Ingestion	Rat	LD50 560 mg/kg
Ethylene Glycol Ethers	Oral	Guinea Pig	LD50: 1414 mg/kg
Ethylene Glycol Ethers	Inhalation (1 hour)	Guinea Pig	LC0: > 3.1 mg/l > 641 ppm

Skin Corrosion / Irritation

Name	Species	Value
2-Butoxyethanol	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value

2-Butoxyethanol	Rabbit	Severe Irritant
Ethylene Glycol Ethers		Causes serious eye irritation.
Ethylene Glycol Ethers	Rabbit	Prolonged skin contact may cause temporary irritation.

Skin Sensitization

Name	Species	Value
2-Butoxyethanol	Guinea Pig	Not sensitizing

Respiratory Sensitization

Name	Species	Value

Germ Cell Mutagenicity

Name	Route	Value
2-Butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
2-Butoxyethanol	Inhalation	Multiple Species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Name	Route	Value	Species	Test Result	Exposure Duration
2-Butoxyethanol	Dermal	Not toxic to development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-Butoxyethanol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	during organogenesis
2-Butoxyethanol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Multiple Species	NOAEL 0.48 mg/l	during organogenesis

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ	Value	Species	Test Result	Exposure Duration
2-Butoxyethanol	Dermal	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 902 mg/kg	6 Hours
2-Butoxyethanol	Dermal	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 72 mg/kg	

2-Butoxyethanol	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 451 mg/kg	6 hours
2-Butoxyethanol	Dermal	Blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Inhalation	Blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	blood	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
2-Butoxyethanol	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	poisoning and/or abuse

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ	Value	Species	Test Result	Exposure Duration
2-Butoxyethanol	Dermal	Blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Dermal	endocrine system	All data are negative	Rabbit	NOAEL 150 mg/kg/day	90 days
2-Butoxyethanol	Inhalation	blood	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.12 mg/l	90 days
2-Butoxyethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.15 mg/l	14 weeks
2-Butoxyethanol	Inhalation	Kidney and/or bladder	Some positive data exist, but the data are not	Rat	LOAEL 1.9 mg/l	14 weeks

			sufficient for classification			
2-Butoxyethanol	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 2.4 mg/l	14 weeks
2-Butoxyethanol	Ingestion	Blood	Causes damage to organs through prolonged or repeated exposure	Multiple animal species	NOAEL Not available	14 weeks
2-Butoxyethanol	Ingestion	Kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	14 weeks

Section 12: Ecological Information (non-mandatory)

Section 13: Disposal Considerations (non-mandatory)

Section 14: Transport Information (non-mandatory)

Section 15: Regulatory Information (non-mandatory)

Section 16: Other Information

PREPARATION / REVISION DATE
05/28/2015

OTHER INFORMATION
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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