

## SAFETY DATA SHEET

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: GLASS CLEANER CONCENTRATE  
 PRODUCT NO: TM084  
 RECOMMENDED USE: Automotive Glass Cleaner  
  
 COMPANY: TRANS-MATE, INC.  
 13 Sterling Road  
 N. Billerica, MA 01862  
 USA  
 978-667-0100  
  
 EMERGENCY TELEPHONE NUMBER: Trans-Mate – 978-667-0100  
 CHEMTREC – 800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION**

## Warning

Causes serious eye irritation. Causes skin irritation. Harmful if swallowed or inhaled. Flammable liquid and vapor.

Wear protective gloves and eye protection. Wash thoroughly after handling. Do not eat drink or smoke when using this product. Avoid breathing spray. Use only outdoors or in a well-ventilated area. Keep away from heat and flames. Keep container tightly closed. Use explosion proof equipment.

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

If on skin: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation occurs, get medical attention.

If swallowed: Rinse mouth. Call a doctor if you feel unwell.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

In case of fire: Use dry chemical, water fog or carbon dioxide extinguisher.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/state/federal regulations.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS #	WEIGHT %
Isopropanol	67-63-0	5-15**
2-Butoxyethanol	111-76-2	5-15**

\*Identity of this ingredient is a trade secret

\*\*Exact percentage of this ingredient is a trade secret

**SECTION 4: FIRST AID MEASURES**

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

If on skin: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation occurs, get medical attention.

If swallowed: Rinse mouth. Call a doctor if you feel unwell.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

**SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: Use water spray, dry chemical, carbon dioxide or "alcohol" foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion may produce noxious and irritating gases which will require fresh air source in fire fighting.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear as a general precaution.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Use personal protective equipment; see Section 8.

Keep product from entering storm sewers and ditches that may lead to waterways.

Stop spill at source; dike and contain large spills and transfer to recovery container. Use absorbent for small spills and containerize.

See Section 13 for disposal.

**SECTION 7: HANDLING AND STORAGE**

Handle according to good manufacturing and warehousing practices. Avoid contact with eyes, skin and clothing.

Store indoors between 40F/4C and 100F/38C

Use product only for intended use. Follow label directions.

Wash hands after handling.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENT	CAS #	OSHA PEL (ppm or *mg.M <sup>3</sup> ) +=skin, c=ceiling	ACGIH TLV (ppm or *mg.M <sup>3</sup> ) +=skin, c=ceiling
Isopropanol	67-63-0	400	400
2-Butoxyethanol	111-76-2	25+	25+

EYES: Wear eye protection (i.e. chemical safety glasses with side shields or goggles). Contact lenses should not be worn.

SKIN: Chemical resistant clothing (i.e. gloves) is recommended.

RESPIRATORY PROTECTION: Not expected to be needed. Where over-exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.

VENTILATION: Local exhaust or general room ventilation is normally adequate.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash station is recommended.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Blue liquid  
 ODOR: Solvent odor  
 ODOR THRESHOLD: NA  
 pH: 7-10  
 MELTING/FREEZING POINT: Approx. 25F/-4C  
 BOILING POINT: APPROX 200F/93C  
 BOILING RANGE: NA  
 FLASH POINT (CC): 88F/31C  
 EVAPORATION RATE: Approx. that of water  
 FLAMMABILITY: Flammable  
 UPPER/LOWER FLAMMABILITY LIMITS: NA  
 UPPER/LOWER EXPLOSIVE LIMITS: 12.7%/2% (Isopropanol)  
 VAPOR PRESSURE: NA  
 VAPOR DENSITY: 2 (Air = 1)  
 RELATIVE DENSITY: 8.1 LB/GAL  
 SOLUBILITY: Soluble in water.  
 PARTITION COEFFICIENT: N-OCTANOL/WATER: NA  
 AUTO-IGNITION TEMPERATURE: NA  
 DECOMPOSITION TEMPERATURE: NA  
 VISCOSITY: Water thin

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY: Stable  
 CHEMICAL STABILITY: Stable  
 POSSIBILITY OF HAZARDOUS REACTIONS: Low.  
 INCOMPATIBLE MATERIALS: Avoid oxidizers and reducers.  
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and other gases.

**SECTION 11: TOXICOLOGICAL INFORMATION**

ACGIH classifies 2-butoxyethanol as a confirmed animal carcinogen with unknown relevance to humans; Group A3. This product contains no other ingredients at or about 0.1% that are listed by NTP, IARC, or OSHA as carcinogens.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecological data for this chemical mixture is not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with federal, state and local environmental regulations.

**SECTION 14: TRANSPORT INFORMATION**

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT	UN1993	Flammable Liquid, NOS (isopropyl alcohol, ethylene glycol monobutyl ether)	3	PGII	-	-

**SECTION 15: REGULATORY INFORMATION**

RTK Ingredients : Water (7732-18-5), Isopropanol (67-63-0), 2-Butoxyethanol (111-76-2)

**SECTION 16: OTHER INFORMATION**

NFPA 704

HAZARD RATING

4=Severe           H=1

3=Serious         F=3

2=Moderate       R=0

1=Slight

0=Minimal

Prepared: January 2, 2015

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