

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/14/2018

Reviewed on 04/14/2018

**1 Identification**

- **Product Identifier**
- **Trade Name: GLASS CLEANER**
- **Product Number: K-72E**
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description: Solvent-Based Cleaner**
- **Application of the substance / the mixture: Automotive Glass Cleaner**
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Kaady Chemical Corp.  
2545 SW SPRING GARDEN ST STE 120  
PORTLAND, OR 97219  
1-510-562-9788  
www.kaadychemical.com
- **Emergency telephone number: +1-800-424-9300**

**2 Hazard(s) Identification**

- **Classification of the substance or mixture:**  
Eye Irrit. 2B H320 Causes eye irritation.
- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Warning
- **Hazard statements:**  
H320 Causes eye irritation.
- **Precautionary statements:**

P262	Do not get in eyes, on skin, or on clothing.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Unknown acute toxicity:**  
This value refers to knowledge of known, established toxicological or ecotoxicological values.  
0 % of the mixture consists of component(s) of unknown toxicity.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

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**· HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Physical Hazard = 0

**· Hazard(s) not otherwise classified (HNOC): None known**

### 3 Composition/Information on Ingredients

**· Non-hazardous components:**

Non-Hazardous Components	>83%
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**· Chemical characterization: Mixtures**
**· Description:** Mixture of substances listed below with non-hazardous additions.

**· Dangerous Components:**

CAS: 34590-94-8	Dipropylene glycol monomethyl ether	<15%
RTECS: JM 1575000	Flam. Liq. 4, H227	
CAS: 64-17-5	Ethanol	<2%
RTECS: KQ 6300000	Flam. Liq. 2, H225; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	

**· Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

### 4 First-Aid Measures

**· Description of first aid measures:**
**· After inhalation:**

If inhaled, move person into fresh air. If not breathing, give artificial respiration. If symptoms persist, obtain medical attention.

**· After skin contact:**

Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Remove contaminated clothing and wash before reuse. Consult a physician if irritation persists.

**· After eye contact:**

Check for and remove contact lenses. Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Consult a physician if irritation persists.

**· After swallowing:**

Rinse mouth with water. Do NOT induce vomiting. Give 3-4 glasses of water or milk to dilute stomach contents. Consult a physician if irritation develops and/or persists.

**· Information for doctor:**
**· Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

**· Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

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**5 Fire-Fighting Measures**

- **Extinguishing media:**
- **Suitable extinguishing agents:**  
CO2, sand, dry chemical, water mist or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:**  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulfur oxides  
Formaldehyde
- **Advice for firefighters:**
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

**6 Accidental Release Measures**

- **Personal precautions, protective equipment and emergency procedures:**  
Use personal protective equipment as required.  
Avoid breathing vapors, mist or gas.  
Ensure adequate ventilation.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>		
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
64-17-5	Ethanol	1,800 ppm
· <b>PAC-2:</b>		
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
64-17-5	Ethanol	3300* ppm
· <b>PAC-3:</b>		
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
64-17-5	Ethanol	15000* ppm

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**7 Handling and Storage**

- **Handling**
- **Precautions for safe handling:**
  - Avoid contact with eyes, skin, or clothing.
  - Keep containers closed when not in use.
  - Do not expose containers to open flame, excessive heat, or direct sunlight.
  - Do not smoke while using material.
  - Do not puncture or drop containers.
  - Handle with care and avoid spillage on the floor (slippage).
  - Keep material out of reach of children.
  - Keep material away from incompatible materials.
  - Wash thoroughly after handling.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
  - Avoid contact with eyes, skin, or clothing.
  - Keep containers closed when not in use.
  - Do not expose containers to open flame, excessive heat, or direct sunlight.
  - Do not smoke while using material.
  - Do not puncture or drop containers.
  - Handle with care and avoid spillage on the floor (slippage).
  - Keep material out of reach of children.
  - Keep material away from incompatible materials.
  - Wash thoroughly after handling.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

**8 Exposure Controls/Personal Protection**

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**

· **Components with occupational exposure limits:**

**34590-94-8 Dipropylene glycol monomethyl ether**

PEL	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm Skin

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**64-17-5 Ethanol**

PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
Have self-contained breathing apparatus, positive pressure, MSHA/NIOSH (approved or equivalent) available in case of spillage or equipment failure.
- **Protection of hands:** Not required.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:**



Safety glasses recommended.

**9 Physical and Chemical Properties**

· <b>Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
<b>Form:</b>	Liquid
<b>Color:</b>	Blue tint
· <b>Odour:</b>	Strong, pungent alcohol-like
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value @ 20 °C (68 °F):</b>	8-9
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	Not determined.
· <b>Flash point:</b>	None
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	Not applicable
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.

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· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density @ 20 °C (68 °F):</b>	0.914 g/cm <sup>3</sup> (7.627 lbs/gal)
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not determined.
· <b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with:</b>	
<b>Water:</b>	Miscible
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>VOC content:</b>	458 g/L
<b>Solids content:</b>	0.0 %
· <b>Other information:</b>	No further relevant information available.

**10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Incompatibilities, flames, ignition sources.
- **Incompatible materials:**  
Peroxides, Nitric Acid, Strong Oxidizing Agents, Strong Acids, Acid Anhydrides, Aluminum, Alkali Metals, Halogenated Compounds and Ammonia.
- **Hazardous decomposition products:** Carbon Oxides, Sulfur Oxides, Formaldehyde.

**11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

<b>34590-94-8 Dipropylene glycol monomethyl ether</b>		
Oral	LD50	5,135 mg/kg (Rat)
Dermal	LD50	>19,000 mg/kg (rab)
Inhalative	LC50/96 hours	>10,000 mg/l (Pimephales)

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**64-17-5 Ethanol**

Oral	LD50	7,060 mg/kg (Rat) Remarks: Lungs, Thorax, or Respiration: Other changes. Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease. Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence
Inhalative	LC50/4 h	20,000 mg/l (Rat)
	LC50/96 hours	12,900-15,300 mg/l (Trout)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
- **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**12 Ecological Information**

· **Toxicity:**

· **Aquatic toxicity:**

**34590-94-8 Dipropylene glycol monomethyl ether**

EC50 1.919 mg/l (Daphnia)

**64-17-5 Ethanol**

EC50 34,900 mg/l (Daphnia)

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-

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- dangerous.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

**13 Disposal Considerations**

- **Waste treatment methods:**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport Information**

- **UN-Number:**
- **DOT, ADR/ADN, ADN, IMDG, IATA**                      *Non-Regulated Material*
- **UN proper shipping name:**
- **DOT, ADR/ADN, ADN, IMDG, IATA**                      *Non-Regulated Material*
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:**    *Non-Regulated Material*
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA**                              *Non-Regulated Material*
- **Environmental hazards:**                                      *Not applicable.*
- **Special precautions for user:**                              *Not applicable.*
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**                      *Not applicable.*
- **UN "Model Regulation":**                                      *Non-Regulated Material*

**15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

*None of the ingredients are listed.*

· **Section 313 (Specific toxic chemical listings):**

*None of the ingredients are listed.*

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**· TSCA (Toxic Substances Control Act):**

34590-94-8 Dipropylene glycol monomethyl ether

64-17-5 Ethanol

**· California Proposition 65:**

**· Chemicals known to cause cancer:**

None of the ingredients are listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**· Chemicals known to cause developmental toxicity:**

64-17-5 Ethanol

**· New Jersey Right-to-Know List:**

34590-94-8 Dipropylene glycol monomethyl ether

64-17-5 Ethanol

**· New Jersey Special Hazardous Substance List:**

64-17-5 Ethanol

CA, MU, TE, F3

**· Pennsylvania Right-to-Know List:**

34590-94-8 Dipropylene glycol monomethyl ether

64-17-5 Ethanol

**· Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

**· Carcinogenic categories:**

**· EPA (Environmental Protection Agency):**

None of the ingredients are listed.

**· TLV (Threshold Limit Value established by ACGIH):**

64-17-5 Ethanol

A3

**· NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms:** Non-Regulated Material

**· Signal word:** Warning

**· Hazard statements:**

H320 Causes eye irritation.

**· Precautionary statements:**

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P332+P313      *If skin irritation occurs: Get medical attention.*  
 P337+P313      *If eye irritation persists: Get medical advice/attention.*  
 P405              *Store locked up.*  
 P501              *Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **National regulations:**

None of the ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision:** 04/14/2018 / 23

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 4: Flammable liquids – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- **\* Data compared to the previous version altered.**

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