

# MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Glass Cleaner  
MSDS NO. 4646  
Revision Date: 03/27/2007  
Date Printed: 03/27/2007

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Glass Cleaner  
Synonyms: None  
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300  
Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                   | Weight % | OSHA TWA   | OSHA STEL  | OSHA SKIN  |
|-----------------------------|----------|------------|------------|------------|
| Propane<br>74-98-6          | 4-7      | Not Listed | Not Listed | Not Listed |
| Butane<br>106-97-8          | 4-7      | Not Listed | Not Listed | Not Listed |
| Glycol Ether EB<br>111-76-2 | 0.5-2    | Not Listed | Not Listed | 50 ppm     |
| Ethanol<br>64-17-5          | 0.5-2    | Not Listed | Not Listed | Not Listed |
| Methyl Alcohol<br>67-56-1   | 3-5      | Not Listed | Not Listed | Not Listed |

| Component                   | Weight % | OSHA Z PEL                      | OSHA Z TWA                      | OSHA Z Ceiling |
|-----------------------------|----------|---------------------------------|---------------------------------|----------------|
| Propane<br>74-98-6          | 4-7      | 1800 mg/m <sup>3</sup> 1000 ppm | 1800 mg/m <sup>3</sup> 1000 ppm | Not Listed     |
| Butane<br>106-97-8          | 4-7      | Not Listed                      | 1900 mg/m <sup>3</sup> 800 ppm  | Not Listed     |
| Glycol Ether EB<br>111-76-2 | 0.5-2    | 240 mg/m <sup>3</sup> 50 ppm    | 120 mg/m <sup>3</sup> 25 ppm    | Not Listed     |
| Ethanol<br>64-17-5          | 0.5-2    | 1900 mg/m <sup>3</sup> 1000 ppm | 1900 mg/m <sup>3</sup> 1000 ppm | Not Listed     |
| Methyl Alcohol<br>67-56-1   | 3-5      | 260 mg/m <sup>3</sup> 200 ppm   | 260 mg/m <sup>3</sup> 200 ppm   | Not Listed     |

| Component                   | ACGIH TLV TWA | ACGIH TLV STEL | ACGIH TLV Ceiling |
|-----------------------------|---------------|----------------|-------------------|
| Propane<br>74-98-6          | 1000 ppm      | Not Listed     | Not Listed        |
| Butane<br>106-97-8          | 1000 ppm      | Not Listed     | Not Listed        |
| Glycol Ether EB<br>111-76-2 | 20 ppm        | Not Listed     | Not Listed        |
| Ethanol<br>64-17-5          | 1000 ppm      | Not Listed     | Not Listed        |
| Methyl Alcohol<br>67-56-1   | 200 ppm       | 250 ppm        | Not Listed        |

## 3. HAZARDS IDENTIFICATION

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## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Content under pressure. Keep away from heat, sparks and flame. Causes respiratory irritation. Possible redness and defatting may result from prolonged skin exposure to this material. Ingestion of this product may cause gastrointestinal distress with symptoms of nausea, vomiting, diarrhea and abdominal pain. Gross inhalation overexposure may cause: respiratory track irritation, kidney damage, blood, liver damage, lung damage and central nervous system depression. Causes moderate eye irritation. This material is a skin irritant.

**HMIS Classification:** Health: \*2 Flammability: 4 Physical Hazard: 2  
**NFPA Rating:** Health: 3 Flammability: 4 Reactivity: 0

## 4. FIRST AID MEASURES

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.  
**Ingestion:** Get immediate medical attention. Induce vomiting immediately as directed by medical personnel. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. If vomiting occurs, keep head lower than hips to prevent aspiration.  
**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.  
**Skin Contact:** Wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Remove contaminated clothing and shoes, and launder before reuse.

## 5. FIRE FIGHTING MEASURES

### Flammable Properties

**Flash Point °F(°C):** -200 F (Propellant)  
**Flash Point Method:** TAG Closed Cup  
**Flammable Limits in Air - Lower (%):** 1.1%  
**Flammable Limits in Air - Upper (%):** Not Determined  
**Autoignition Temperature °F(°C):** 460 F (Lowest Component)  
**Extinguishing Media:** Dry chemical. Carbon dioxide. Use water spray to keep containers cool that are exposed to heat or flames. Foam.

### Protection Of Fire-Fighters:

**Special Fire-Fighting Procedures:** Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire.  
**Hazardous Combustion Products:** Carbon Dioxide. Carbon Monoxide.  
**Aerosol Comments:** NFPA Level 1 Aerosol

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective clothing and equipment to prevent skin and eye contact.  
**Spill Procedures:** Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames.  
**Action to be taken if material is released or spilled:** Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.  
**Environmental Precautions:** Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

## 7. HANDLING AND STORAGE

**Handling and Storage:** Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cause bursting. DO NOT store in the passenger compartment of an automobile.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.  
**Eyes:** Chemical goggles; also wear a face shield if splashing hazard exists.  
**Skin Protection:** Avoid skin contact. Wear protective clothing and gloves.  
**Respiratory Protection:** Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colorless to light yellow liquid  
**Odor:** SLIGHT ALCOHOL  
**pH Value:** 9.0  
**Vapor Pressure:** Not Determined  
**Vapor Density (Air=1):** Not Determined  
**Boiling Point (°F):** Not Determined  
**Melting/Freezing Point:** Not Determined.  
**Solubility in Water:** Solubility in Water:  
**Bulk Density at 20°C:** Not Determined  
**Molecular Weight:** Mixture  
**Specific Gravity (H2O=1):** .98 @ 60 F (liquid)  
**Viscosity:** Not Determined.  
**Evaporation Rate:** Not Determined  
**VOC Content(%):** Not determined.  
**Decomposition Temperature:** Not Determined

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** STABLE.  
**Conditions to Avoid:** Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120 F.  
**Materials to Avoid:** Contact with oxidizing agents.  
**Hazardous Decomposition Products:** Carbon monoxide. Carbon dioxide. Oxides of nitrogen.  
**Hazardous Polymerization:** WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

### Toxicological Data:

| Component                   | Route      | Species | Dose                           |
|-----------------------------|------------|---------|--------------------------------|
| Propane<br>74-98-6          | NA         | NA      | Not known.                     |
| Butane<br>106-97-8          | NA         | NA      | LC50 658 gm/m <sup>3</sup> /4H |
| Glycol Ether EB<br>111-76-2 | Inhalation | Rats    | LC50 450 ppm/4H                |
| Ethanol<br>64-17-5          | Inhalation | Rats    | Not known.                     |
| Methyl Alcohol<br>67-56-1   | Inhalation | Rats    | LC50 64,000 ppm                |

**Carcinogenicity:**

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| Component                   | IARC       | NTP        | OSHA       |
|-----------------------------|------------|------------|------------|
| Propane<br>74-98-6          | Not Listed | Not Listed | Not Listed |
| Butane<br>106-97-8          | Not Listed | Not Listed | Not Listed |
| Glycol Ether EB<br>111-76-2 | Not Listed | Not Listed | Not Listed |
| Ethanol<br>64-17-5          | Not Listed | Not Listed | Not Listed |
| Methyl Alcohol<br>67-56-1   | Not Listed | Not Listed | Not Listed |

### 12. ECOLOGICAL INFORMATION

**Remarks:** Ecological testing has not been conducted on this product.

### 13. DISPOSAL CONSIDERATION

**Waste Classification:** Not determined.  
**Waste Management:** Not determined.  
**Disposal Method:** Disposal should be made in accordance with federal, state and local regulations.

### 14. TRANSPORTATION INFORMATION

**U.S. DOT:**  
**Proper Shipping Name:** ORM-D CONSUMER COMMODITY  
**Hazard Class:** ORM-D  
**UN/NA Number:** Not Applicable  
**DOT Packing Group:** Not Applicable

**IMDG:**  
**Proper Shipping Name:** Aerosols (Limited Quantity)  
**Hazard Class:** 2.1  
**Hazard Subclass:** Not determined.  
**UN No.:** UN1950  
**Packing Group:** PG II  
**Marine Pollutant:** No

### 15. REGULATORY INFORMATION

**US Federal Regulations:**

| Component                   | SARA 313   | SARA 302   | TPQ        | RQ         |
|-----------------------------|------------|------------|------------|------------|
| Propane<br>74-98-6          | Not Listed | Not Listed | Not Listed | Not Listed |
| Butane<br>106-97-8          | Not Listed | Not Listed | Not Listed | Not Listed |
| Glycol Ether EB<br>111-76-2 | Listed.    | Not Listed | Not Listed | Not Listed |
| Ethanol<br>64-17-5          | Not Listed | Not Listed | Not Listed | Not Listed |
| Methyl Alcohol<br>67-56-1   | Listed.    | Not Listed | Not Listed | Not Listed |

**US OSHA HEALTH CLASSIFICATION:** Hazardous per OSHA 29 CFR 1910.1200  
**SARA 311/312 Hazard Categories:** Not Determined.

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**State Regulations:**

| Component                   | California Prop. 65<br>Cancer list | California - Prop 65<br>Developmental Toxicity | California Prop. 65<br>Reproductive Female | California Prop. 65<br>Reproductive Male |
|-----------------------------|------------------------------------|--|--|--|
| Propane<br>74-98-6          | Not Listed                         | Not Listed                                     | Not Listed                                 | Not Listed                               |
| Butane<br>106-97-8          | Not Listed                         | Not Listed                                     | Not Listed                                 | Not Listed                               |
| Glycol Ether EB<br>111-76-2 | Not Listed                         | Not Listed                                     | Not Listed                                 | Not Listed                               |
| Ethanol<br>64-17-5          | Not Listed                         | Not Listed                                     | Not Listed                                 | Not Listed                               |
| Methyl Alcohol<br>67-56-1   | Not Listed                         | Not Listed                                     | Not Listed                                 | Not Listed                               |

| Component                   | New Jersey Right-to-Know List:   |
|-----------------------------|--|
| Propane<br>74-98-6          | Substance no. 2422<br>Substance no. 2423<br>Substance no. 2425<br>Substance no. 2426<br>Substance no. 2427<br>Substance no. 2428<br>Substance no. 2429<br>Substance no. 2430<br>Substance no. 1594                       |
| Butane<br>106-97-8          | Substance no. 0273<br>Substance no. 2422<br>Substance no. 2423<br>Substance no. 2425<br>Substance no. 2426<br>Substance no. 2427<br>Substance no. 2428<br>Substance no. 2429<br>Substance no. 2430                       |
| Glycol Ether EB<br>111-76-2 | Substance no. 0275<br>Substance no. 2265   |
| Ethanol<br>64-17-5          | Substance no. 0844   |
| Methyl Alcohol<br>67-56-1   | Substance no. 2079<br>Substance no. 2422<br>Substance no. 2423<br>Substance no. 2425<br>Substance no. 2426<br>Substance no. 2427<br>Substance no. 2428<br>Substance no. 2429<br>Substance no. 2430<br>Substance no. 1222 |

**U.S. TSCA:** The components of this product are listed on the TSCA Inventory.  
**Canadian Inventory:** The components of this product are listed on the Canadian DSL or NDSL Inventory.

## 16. OTHER INFORMATION

**General Notes:** Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

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### 16. OTHER INFORMATION

**Disclaimer:**

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