**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name : **GLASS CLEANER CONCENTRATE**

Other means of identification : Not applicable

Recommended use : Concentrated glass cleaner

Restrictions on use : For industrial and professional use

Company West Chem Loveland

2032 Alta Court

Loveland, CO 80538

Emergency telephone (970) 490-9096

Poison control center (800)-222-1222

Issuing date 04/1/2015

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Eye irritation : Category 2B

**GHS Label element**

Signal word **:** Warning

Hazard Statements : Harmful if swallowed

 Causes skin and eye irritation

Precautionary Statements : **Prevention:**

 **:** Wash hands thoroughly after handling.

 : **Response:**

 **:** Get medical advice/ attention if you feel unwell.

 : **Storage:**

 **:** Store in accordance with local regulations.

**Other hazards** : None known

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

Pure Substance/Mixture : Mixture

**Chemical name CAS-No. Concentration (%)**

Isopropyl alcohol 67-63-0 4%

**SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

Protection of First-Aiders : No special precautions are necessary for first aid responders.

Notes to Physician : No specific measures identified.

Most important symptoms and : See Section 11 for more detailed information on health effects

effects, both acute and delayed and symptoms.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing Media : Use extinguishing measures that are appropriate to local

 Circumstances and the surrounding environment.

Unsuitable extinguishing : None known

media

Specific hazards arising from the : In a fire or if heated, a pressure increase will occur and the

chemical container may burst. Fire water contaminated with this material

 must be contained and prevented from being discharged to any

 waterway, sewer or drain.

Hazardous combustion : Decomposition products may include the following materials:

products Carbon oxides

 Nitrogen oxides (NOx)

 Sulfur oxides

 Oxides of phosphorus

Specific fire-fighting methods : Use personal protective equipment

Special Protective Equipment : Fire residues and contaminated fire extinguishing water must be

for Fire-Fighters disposed of in accordance with local regulations.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective : Refer to protective measures listed in section 7 and 8.

equipment and emergency

procedures

Environmental precautions : No special environmental precautions required.

Methods and materials for : Stop leak if safe to do so. Contain spillage, and then collect with containment and cleaning up non-combustible absorbent material, (e.g. sand, earth,

 diatomaceous earth, vermiculite) and place in container for

 disposal according to local/ national regulations (see section 13).

 Flush away traces with water. For large spills, dike spilled material

 or otherwise contain material to ensure runoff does not reach a

 waterway.

**SECTION 7. HANDLING AND STORAGE**

Advice on Safe Handling : Wash hands thoroughly after handling. Use only with adequate

 ventilation.

Conditions for Safe Storage : Keep out of reach of children. Store in suitable labeled

 containers.

Storage Temperature : Store between the following temperatures: 0 ̊C and 35 ̊C

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

**Ingredients with workplace control parameters**

**Ingredients CAS-No. Form of Permissible Basis
 exposure concentration**

ISOPROPYL ALCOHOL 111-90-0 STEL 400 ppm 15 min ACGIH TLV
 TWA 200 ppm 8 hours

 TWA 980 mg/m³ 8 hours OSHA PEL
 TWA 400 ppm 8 hours

 TWA 400 ppm 10 hours NIOSH REL
 TWA 980 mg/m³ 10 hours
 STEL 500 ppm 15 minutes
 STEL 1225 mg/m³ 15 minutes

Engineering Measures : Good general ventilation should be sufficient to control worker

 exposure to airborne contaminants.

**Personal Protective Equipment**

Eye Protection : No special protective equipment required.

Hand Protection : No special protective equipment required.

Skin Protection : No special protective equipment required.

Respiratory Protection : No personal respiratory protective equipment normally required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

 practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid

Color : blue (Dark)

Odor : alcohol-like

pH : 6.2 – 9.4, 100%

Flash Point : > 100 ̊F

Odor Threshold : No data available

Melting Point/Freezing Point : No data available

Initial Boiling Point and : >100 ̊C (>212 ̊F) Boiling Range

Evaporation Rate : No data available

Flammability (solid, gas) : No data available

Upper Explosion Limit : No data available

Lower Explosion Limit : No data available

Vapor Pressure : No data available

Relative Vapor Density : No data available

Specific Gravity : .9472

Relative Density : No data available

Water Solubility : soluble

Solubility in Other Solvents : No data available

Partition Coefficient: n- : No data available Octanol/Water

Autoignition Temperature : No data available

Thermal Decomposition : No data available

Viscosity, Kinematic : No data available

Explosive Properties : No data available

Oxidizing Properties : No data available

Molecular Weight : No data available

VOC : No data available

**SECTION 10. STABILITY AND REACTIVITY**

Chemical Stability : Stable under normal conditions.

Possibility of hazardous : No dangerous reaction known under conditions of normal use.

reactions

Conditions to avoid : Open flame.

Incompatible materials : None known.

Hazardous decomposition : Under normal conditions of storage and use, hazardous

products decomposition products should not be produced.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

**Potential Health Effects**

Eyes : Causes eye irritation.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic exposure **:** Health injuries are not known or expected under normal use.

**Experience with human exposure**

Eye contact : Redness, irritation.

Skin Contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation  **:** No symptoms known or expected.

**Toxicity**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Acute inhalation toxicity : 4 h Acute toxicity estimate : 25 mg/l

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Skin corrosion/irritation : No data available

Serious eye damage/eye : Mild eye irritation

Irritation

Respiratory or skin : No data available

sensitization

Carcinogenicity : No data available

Reproductive effects : No data available

Germ cell mutagenicity : No data available

Teratogenicity : No data available

STOT –single exposure : No data available

STOT –repeated exposure : No data available

Aspiration toxicity : No data available

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Environmental Effects : No significant effects or critical hazard.

**Product**

Toxicity to fish : No data available

Toxicity to daphnia and other : No data available

aquatic invertebrates

Toxicity to algae : No data available

 Persistence and degradability

No data available

 Bioaccumulative potential

No data available

 Mobility in soil

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : The product should not be allowed to enter storm drains, water

 Courses or the soil.

Disposal Considerations : Dispose of in accordance with local, state, and federal regulations.

**SECTION 14. TRANSPORT INFORMATION**

This shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (DOT)**

Not regulated

**Sea transport (IMDG/IMO)**

Not regulated

**SECTION 15. REGULATORY INFORMATION**

**EPCRA – Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ

**SARA 304 Extremely Hazardous Substance Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ

**SARA 311/312 Hazards :**  No SARA Hazards

**SARA 302 :** No chemicals in this material are subject to the reporting

 requirements of SARA Title lll, Section 302.

**SARA 313 :** This material does not contain any chemical components

 with known CAS numbers that exceed the threshold (De

 Minimis) reporting levels established by SARA Title lll, Section 313

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other

reproductive defects.

**The ingredients of this product are reported in the following inventories:**

**1907/2006 (EU)**

Not determined

**United States TSCA Inventory :**

On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**

This product contains one or several components listed in the Canadian NDSL.

**SECTION 16. OTHER INFORMATION**

**Hazardous Material :**

**Information System (U.S.A)**

 **Health 1**

 **Flammability**  **0**

 **Physical Hazards** **0**

**NFPA:**

 **Flammability**

**1**

**Instability/**

**Reactivity**

**Health**

**0**

**0**

 **Special Hazard**

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Prepared by : Specialty Chemicals & Systems

Notice to reader

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge., information and belief at the date of its publication. The information given is designed only as a guidance for safe handling,

Use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality

Specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.