Safety Data Sheet
29-1018-2014 Suzo Happ Glass Cleaner

1. IDENTIFICATION

Suzo-Happ® Group
1743 Linneman Rd.
Mount Prospect, IL 60056
1 (888) 289-4277

Product Name:	Suzo Happ Glass Cleaner
Product Code:	29-1018-2014
Product Use:	Glass Cleaner
24-hour emergency phone:	1-800-424-9300 [CHEMTREC]

2. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard Symbols

GHS Classification	Gases under pressure - Liquified Gas Serious Eye Damage/Eye Irritation Category 2
Signal Word	Warning
Hazard Statements	Contains gas under pressure; may explode if heated. Causes serious eye irritation.
Precautionary Statements	
Prevention	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	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 advice/attention.
Storage	Protect from sunlight. Store in a well-ventilated place.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS #	Percent
Hydrocarbon propellant	68476-86-8	1-20
2-propanone	67-64-1	1-20
Ethanol	64-17-5	1-20
Glycol ether	111-76-2	1-20

HMIS® III* HAZARDOUS WARNINGS:

Health:	3*	Flammability:	2	Physical:	0	Personal Protective Equipment:	See Section 8

* See www.paint.org/hmis or call the NPCA at 1 (202) 462-6272 for more information on this current rating system.

4. FIRST AID MEASURES

Eyes:	Immediately flush eyes gently with plenty of water for at least 15 minutes while holding eyelids apart. If symptoms persist or there is visual difficulty, seek medical attention.
Skin Contact:	In case of contact, immediately wash contaminated area with plenty of water for at least 15 minutes. Seek medical attention if symptoms persist. Wash clothing before reuse. For liquid contact, treat for frostbite if necessary.
Ingestion:	Do not induce vomiting. Aspiration into the lungs can cause serious damage. Contact a physician, medical facility, or poison control center immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Continue your efforts until help arrives or the victim starts to breathe on his own. Do not leave victim alone. Seek immediate medical attention. Keep the

victim warm and quiet.

NOTES TO PHYSICIAN:
This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin; lung (for example, asthma-like conditions); liver; kidney; blood forming system;

5. FIRE FIGHTING MEASURES

Fire and/or Explosion Hazards: Product is water based material, containing minor amounts of flammable ingredients. This product contains a component(s) that is considered an extremely flammable gas(es), which has vapors that are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, or other flames and ignition sources at locations distant from the material's handling point. This product contains a component(s) that is considered a flammable liquid, which has vapors that are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, or other flames and ignition sources at locations distant from the material's handling point.Vapors are heavier than air and may accumulate in low areas. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

Fire Fighting Instructions: Use water spray, foam, dry chemical, or CO2. Water is generally not effective and may spread fire; however, water spray may be used from a safe distance to cool closed containers and protect surrounding area. Fire fighters should wear normal protective equipment and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Remove all sources of ignition. Wear appropriate personal protective equipment (PPE). Stop or reduce discharge if it can be done safely. Ventilate contaminated area. Avoid run-off into storm sewers and ditches which may lead to natural waterways. If runoff occurs, notify authorities as required. Clean up with absorbent material. Place absorbent materials into container and close it tightly. Dispose of container properly.

7. HANDLING AND STORAGE

Handling: This material can be harmful or irritating. Use with adequate ventilation. Normal precautions common to safe manufacturing practice should be followed in handling and storage. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin. Use with adequate ventilation. If ventilation is not sufficient, wear proper respiratory equipment. Do not store containers in excessive heat or direct sunlight. Protect container against physical damage. Do not use near ignition sources. Wear proper protective equipment. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Avoid prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of vapor.

Storage: Do not store at temperatures above 120 degrees F. Store away from incompatible materials such as materials that support combustion (oxidizing materials) and corrosive materials (strong acids or bases). Store in a cool, dry, well ventilated area away from all sources of ignition. Normal precautions common to safe manufacturing practice should be followed in handling and storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Ventilation is required to maintain operator exposure below published exposure limits. Ventilation should be adequate to prevent exposures above the limits indicated below in this section of the MSDS (from known, suspected or apparent adverse effects). Local exhaust should be used in areas where exposure limits may be exceeded.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin Protection: The use of chemically resistant gloves is recommended if there is any possibility of prolonged or repeated liquid contact with skin.

Respiratory Protection: A supplied air respirator should be used if ventilation is not sufficient to maintain exposure limits. Use NIOSH approved respirator where there is likelihood of inhalation of the product mist, spray or aerosol.

COMPONENT	CAS #	ACGIH TLV	OSHA PEL	OTHER
Hydrocarbon propellant	68476-86-8	1000ppm	Not established	Not established
2-propanone	67-64-1	500 ppm TWA	Not established	Not established
Ethanol	64-17-5	1000ppm TWA	1000ppm TWA	Not established
Glycol ether	111-76-2	20 ppm [skin]	Not established	Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Aerosol can	Lower Flammability Limit (%):	Not applicable
Appearance:	Clear Colorless	Upper Flammability Limit (%):	Not applicable
Odor:	Lemon	Vapor Pressure (PSIG @ 70°F):	48.00
Odor Threshold:	None	Vapor Density [air = 1]:	1.16
pH:	Not applicable	Relative Density (H2O=1):	0.97
Melting/Freezing Point (°F):	-150 -103	Solubility in Water:	Complete; 100%
Boiling Point (°F):	No data available	Partial Coefficient: n-octanol/water:	0.2
Flash Point (°F PMCC):	Not applicable	Autoignition Temperature (°F):	Not applicable
Evaporation Rate:	0.5-2 (n-Butyl acetate = 1)	Decomposition Temperature (°F):	No data available
Flammability (solid, gas):	No data available	Viscosity, dynamic (cSt):	0.3
Percent VOCs (%):	1-20		

10. STABILITY AND REACTION

Chemical Stability: Stable.

Conditions to Avoid: Avoid contact with: Strong oxidizing agents. Ignition sources such as open flames, sparks, static discharges or glowing metal surfaces. Acids. Peroxides. Alkaline earth metals. Strong acids. Contact with nitric and sulfuric acids will form nitocresols that can decompose violently. Strong alkalies.

Decomposition Products: Burning can produce the following combustion products: Carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Reproductive & Developmental Toxicity: No data available.

Ingredient	CAS #	Toxicological Data
Hydrocarbon propellant	68476-86-8	No data available Inhalation LC50 (4h) Rat 658 mg/L
2-propanone	67-64-1	Dermal LD50 Rat > 7426 mg/kg Oral LD50 Rat = 5800 mg/kg Inhalation LC50 (4h) Rat > 76 mg/L
Glycol ether	111-76-2	Dermal LD50 Mouse > 3500 mg/kg Oral LD50 Rat = 2000 mg/kg Inhalation LC50 (6h) Rat > 3 mg/L

12. ECOLOGICAL INFORMATION

Ecological Toxicity: No data available

Mobility: No data available

Degradability: No data available.

Ingredient	CAS #	Toxicological Data
2-propanone	67-64-1	Aquatic LC50 (48h) Rainbow Trout = 6100 mg/L 48HR EC50 Daphnia = 7630 mg/L
Ethanol	64-17-5	Aquatic LC50 (96h) Rainbow Trout 12000 - 16000 mg/L 48HR EC50 Daphnia > 10000 mg/L
Glycol ether	111-76-2	Aquatic LC50 (96h) MINNOW = 72860 mg/L Aquatic LC50 (48h) Daphnia > 100 mg/L Aquatic LC50 (96h) Algae 6500 - 13000 mg/L

13. DISPOSAL CONSIDERATIONS

Disposal : Dispose according to Federal, State and local regulations.

14. TRANSPORTATION INFORMATION

Agency	UN Number	Proper Shipping name	Hazard Class	Packing Group
DOT	UN1950	Aerosols, Non- Flammable†	2.2	Not applicable
IATA	ID8000	Consumer Commodity†	9	Not applicable
IMDG	UN1950	Aerosols, Non- Flammable†	2.2	Not applicable

† "Limited Quantities" may be applicable for this transportation mode.

15. REGULATORY INFORMATION

Warning: This product contains the following chemicals that are subject to reporting requirements for the following regulatory bodies listed below:

COMPONENT	CAS #	% BY WEIGHT	Regulatory Body
Diethanolamine	111-42-2	0.001- 0.01	SARA Section 313

Warning: This product may contain chemicals known to the State of California to cause cancer. See list below.

Methyl isobutyl ketone	108-10-1	0.01 - 0.1	Prop65 Cancer
Diethanolamine	111-42-2	0.001- 0.01	Prop65 Cancer

Warning: This product may contain chemicals known to the State of California to cause birth defects. See list below.

Methanol	67-56-1	0.1- 0.99	Prop65 Birth Defects
Methyl isobutyl ketone	108-10-1	0.01 - 0.1	Prop65 Birth Defects

All components of this product are listed on the TSCA inventory.

16. OTHER INFORMATION

Other Information : MSDS Prepared by L. Dean Swartz, MSDS Coordinator

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