# SAFETY DATA SHEET.

Issuing date 28-Sep-2017 Revision Date 19-Mar-2019 Version 2.01

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name 4640-0 GALLON GLASS CLEANER

Recommended use of the chemical

and restrictions on use

Product code F01661

Product Type Non-flammable liquid

Synonyms None

Supplier's details

Recommended Use Glass Cleaner.

Uses advised against No information available

Manufactured For: Manufacturer

Imperial Supplies LLC American Jetway Corporation

789 Armed Forces Drive 34136 Myrtle Street
P.O. Box 11008 Wayne, MI 48184-0126
Green Bay, WI 53407-1008 Phone: (734) 721-5930

1-800-558-2808

Emergency telephone number

Chemical Emergency Phone CHEMTREC: 1-800-262-8200 ID 1195 (UNITED STATES)

Number

## 2. HAZARDS IDENTIFICATION

#### Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

# GHS Label elements, including precautionary statements

#### **Emergency Overview**

## **DANGER**

#### **Hazard Statements**

Causes severe skin burns and eye damage.



Appearance Clear

Physical state Liquid

**Odor** Ammonia

#### **Precautionary Statements - Prevention**

Do not breathe dust, fume, gas, mist, vapors, spray.

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, face protection.

## **Precautionary Statements - Response**

Specific treatment (see first aid on this label).

IF IN EYES:Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, doctor, physician.

IF ON SKIN (or hair:)Take off immediately all contaminated clothing. Rinse skin with water, shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER, doctor, physician.

IF SWALLOWED: Rinse Mouth. Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents, container to an approved waste disposal plant.

#### Hazards not otherwise classified (HNOC)

None

#### Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*

2-BUTOXYETHANOL	111-76-2	1-10
AMMONIA	1336-21-6	<1
ETHYLENE GLYCOL	107-21-1	<0.1

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

**General advice** Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.

**Eye contact** Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove

any contact lenses and continue flushing. Seek immediate medical attention/advice.

**Skin contact** Wash off with soap and plenty of water. Remove and wash contaminated clothing before

re-use. If skin irritation or rash occurs, call a physician.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped,

contact emergency medical services immediately.

Ingestion Call a physician or Poison Control Center immediately. Rinse mouth. Do NOT induce

vomiting. Never give anything by mouth to an unconscious person. Risk of product entering

the lungs on vomiting after ingestion.

**Protection of First-aiders** Remove all sources of ignition.

Most important symptoms/effects, acute and delayed

Main Symptoms Causes severe skin burns and serious eye damage.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

## **Suitable Extinguishing Media**

Water fog.Dry chemical. Foam.Carbon dioxide (CO2). Cool containers/tanks with water spray.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire. Keep away from sources of ignition - No smoking.

## Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. The product causes burns of eyes, skin and mucous membranes. In the event of fire and/or explosion do not breathe fumes.

#### **Explosion Data**

Sensitivity to Mechanical Impact none.
Sensitivity to Static Discharge Yes.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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handling advice and personal protective equipment recommendations.

Environmental precautions

Environmental precautions Vapors can accumulate in low areas. Report spills as required by local and federal

regulations. Do not flush into surface water or sanitary sewer system. Do not allow material

to contaminate ground water system. Should not be released into the environment.

Methods and materials for containment and cleaning up

Methods for Containment

Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal. Prevent further leakage or spillage if safe to do so. Do not allow material to

contaminate ground water system. Prevent product from entering drains.

Methods for cleaning up Soak up with inert absorbent material. Contain liquid and collect with an inter,

non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly . After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away

from open flames, hot surfaces and sources of ignition. Handle in accordance with good industrial hygiene and safety practice. To avoid ignition of vapors by static electricity

discharge, all metal parts of the equipment must be grounded.

Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** 

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out

of the reach of children. Store locked up.

Incompatible products Strong acids, alkalis, oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** 

. Under most handling conditions, this product will not generate mist or dust. In most aconditions, no special ventilation is nedded .General ventilation is recommended. If the

product is heated above 150 C or atomized ventilation should be use.

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ı	2-BUTOXYETHANOL	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
	111-76-2		TWA: 240 mg/m <sup>3</sup>	TWA: 5 ppm
			(vacated) TWA: 25 ppm	TWA: 24 mg/m <sup>3</sup>
			(vacated) TWA: 120 mg/m <sup>3</sup>	
			(vacated) S*	
			S*	
	ETHYLENE GLYCOL	STEL: 50 ppm vapor fraction	(vacated) Ceiling: 50 ppm	-
	107-21-1	STEL: 10 mg/m³ inhalable	(vacated) Ceiling: 125 mg/m <sup>3</sup>	
		particulate matter, aerosol only		
		TWA: 25 ppm vapor fraction		

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Exposure controls** 

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Ammonia

**Engineering Measures** Ventilation systems. Use adequate ventilation to keep the exposure levels below the

occupational exposure limits.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

Skin and body protection Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Odor

provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Physical and chemical properties

Physical state Liquid **Appearance** Clear

Color Colorless **Odor Threshold** 

Remarks • Methods Property Values

+/- 0.50 pН 11.0 No information available

Melting/freezing point

Boiling point/boiling range

Flash Point Not Applicable

**Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limits in Air upper flammability limit lower flammability limit

Vapor pressure Vapor density

**Specific Gravity** 0.990 Water solubility Infinite

Partition coefficient: n-octanol/water

**Autoignition temperature** No information available

**Decomposition temperature** 

**Viscosity** No information available

**Explosive properties** 

Other information

2.8 VOC Content(%)

# 10. STABILITY AND REACTIVITY

# Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal processing.

## **Conditions to Avoid**

Heat, flames and sparks. Exposure to air or moisture over prolonged periods.

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#### **Incompatible Materials**

Strong acids, alkalis, oxidizing agents.

## **Hazardous Decomposition Products**

Carbon oxides, Hydrocarbons, Fumes.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Respiratory irritation may occur if excessive exposure to product by inhalation.

**Eye contact** Causes serious eye damage.

**Skin contact** Causes severe skin burns.

**Ingestion** May be harmful if swallowed.

**Component Information** 

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-BUTOXYETHANOL	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h = 486 ppm (
111-76-2			Rat ) 4 h
AMMONIA	= 350 mg/kg (Rat)	-	-
1336-21-6			
ETHYLENE GLYCOL	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	-
107-21-1			

#### Information on toxicological effects

**Symptoms** Causes severe skin burns. Causes serious eye damage.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationCauses severe burns. Irritating to skin.Eye damage/irritationCauses serious eye damage. Irritating to eyes.CorrosivityCauses severe burns. Causes serious eye damage.

**Sensitization**Not a known sensitizer. **Germ cell mutagenicity**Not a germ cell mutagen.

**Carcinogenicity** The table below indicates whether each agency has evaluated a listed ingredient as a

carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-BUTOXYETHANOL	A3	Group 3	-	-
111-76-2		·		

## Legend:

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity**This product does not contain any known or suspected reproductive hazards.

Specific target organ systemic toxicity (single exposure)
Specific target organ systemic
No known effect based on information supplied.
No known effect based on information supplied.

toxicity (repeated exposure)

**Chronic toxicity** 

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and

potential cardiac arrest.

Target Organ Effects No known effects under normal use conditions.

Neurological effects Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal.

**Aspiration hazard** No known effect based on information supplied.

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#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 16955 mg/kg ATEmix (dermal) 39682 mg/kg ATEmix (inhalation-gas) 198334 mg/l ATEmix (inhalation-dust/mist) 54.1 mg/l ATEmix (inhalation-vapor) 108.2 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2-BUTOXYETHANOL	-	1490 mg/L LC50 Lepomis	-	1000 mg/L EC50 Daphnia
111-76-2		macrochirus 96h static 2950		magna 48h
		mg/L LC50 Lepomis		
		macrochirus 96h		
AMMONIA	-	8.2 mg/L LC50 Pimephales	-	0.66 mg/L EC50 water flea
1336-21-6		promelas 96h		48h 0.66 mg/L EC50
				Daphnia pulex 48h
ETHYLENE GLYCOL	6500 - 13000 mg/L EC50	41000 mg/L LC50	-	46300 mg/L EC50 Daphnia
107-21-1	Pseudokirchneriella	Oncorhynchus mykiss 96h		magna 48h
	subcapitata 96h	14 - 18 mL/L LC50		
		Oncorhynchus mykiss 96h		
		static 27540 mg/L LC50		
		Lepomis macrochirus 96h		
		static 40761 mg/L LC50		
		Oncorhynchus mykiss 96h		
		static 40000 - 60000 mg/L		
		LC50 Pimephales promelas		
		96h static 16000 mg/L LC50		
		Poecilia reticulata 96h static		

## Persistence and degradability

In soil, siloxanes are degraded.

#### **Bioaccumulation**

Not likely to bioaccumulate.

Chemical Name	log Pow
2-BUTOXYETHANOL	0.81
111-76-2	
ETHYLENE GLYCOL	-1.93
107-21-1	

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

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

regulations.

**Contaminated packaging** Do not re-use empty containers.

# 14. TRANSPORT INFORMATION

**DOT Ground** NOT REGULATED

IATA NOT REGULATED

IMDG NOT REGULATED

# 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AICS
			NCS					
2-BUTOXYETHANOL	Χ	X	X	X	X	X	X	Χ
AMMONIA	X	X	Х	X	X	X	X	Х
ETHYLENE GLYCOL	Χ	Х	X	Х	Х	Х	Х	Χ

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %	
2-BUTOXYETHANOL - 111-76-2	111-76-2	2.772	1.0	
AMMONIA - 1336-21-6	1336-21-6	<1	1.0	
ETHYLENE GLYCOL - 107-21-1	107-21-1	<0.1	1.0	

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Star Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## **Clean Water Act**

This product does contain the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
AMMONIA	1000 lb			X

1336-21-6		

#### **CERCLA**

This material, as supplied, does contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
AMMONIA	1000 lb	KQ5	RQ 1000 lb final RQ
1336-21-6	1000 15		RQ 454 kg final RQ
ETHYLENE GLYCOL	5000 lb		RQ 5000 lb final RQ
107-21-1			RQ 2270 kg final RQ

# U.S. State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Ethylene Glycol CAS # 107-21-1) is considered a Proposition 65 chemical for developmental only when ingested. The purpose of this product is not for ingestion. There is no Proposition 65 warning required for Ethylene Glycol.



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical Name	California Prop. 65
ETHYLENE GLYCOL - 107-21-1	Developmental (ingested) <0.1%

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
DEIONIZED WATER			X
7732-18-5			
2-BUTOXYETHANOL	X	X	X
111-76-2			
AMMONIA	X	X	X
1336-21-6			
ETHYLENE GLYCOL	X	X	X
107-21-1			

EPA Pesticide Registration Number Not applicable

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION				
<u>NFPA</u>	Health Hazard 2	Flammability 1	Instability 0	Physical and chemical hazards
<u>HMIS</u>	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal protection B
Prepared By	American Jetway Corporation 34136 Myrtle Street			

Wayne, MI 48184-0126

Issuing date28-Sep-2017Revision Date19-Mar-2019

**Revision Note** 

#### **Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**