

# SAFETY DATA SHEET.

Issuing date 27-Oct-2016

Revision Date 27-Oct-2016

Version 1

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

#### Product identifier Product name

MS-1025 STREAKPROOF GLASS CLEANER

# Recommended use of the chemical and restrictions on use

Product code
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Product Type Synonyms Extremely Flammable Aerosol None

Supplier's details

Recommended Use	Anti-Static CRT Cleaner.
Uses advised against	No information available

Manufactured For: Mark Supply, Inc. P.O. Box 1451 Venice, FL 34285

Emergency telephone number	
Chemical Emergency Phone	INFOTRAC: 800-535-5053
Number	
Company Emergency Phone	(941) 485-8199
Number	

## 2. HAZARDS IDENTIFICATION

## **Classification**

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

#### <u>GHS Label elements, including</u> precautionary statements

Emergency Overview		
DANGER		
Highly flammable aerosol Contains gas under pressure; may e	xplode if heated	
Appearance Clear	Physical state Aerosol	Odor Solvent
Precautionary Statements - Prever		

Keep away from heat/sparks/open flames/hot surfaces.-No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use

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

Protect from sunlight. Store in a well-ventilated place Do not expose to temperatures exceeding 122°F (50°C)

### Hazards not otherwise classified (HNOC)

None

#### Other information

0.000003% of the mixture consists of ingredient(s) of unknown toxicity

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

Chemical Name	CAS-No	Weight %*
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	1-10
ISOPROPYL ALCOHOL	67-63-0	1-10
2-BUTOXYETHANOL	111-76-2	1-10
AMMONIA	1336-21-6	0.1-1

\*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	Rinse immediately ith plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.	
Skin contact	Wash off with plenty of water and soap. If skin irritation persists, call a physician.	
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.	
Ingestion	Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.	
Most important symptoms/effects, acute and delayed		
Main Symptoms	May cause skin and eye irritation. May cause respiratory irritation.	
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. 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. Cool containers / tanks with water spray.

#### Specific hazards arising from the chemical

Extremely Flammable/Flammable. Keep product and empty container away from heat and sources of ignition. No smoking. Cool containers/tanks with water spray. In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

Explosion Data Sensitivity to Mechanical Impact no. 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.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. Use with adequate ventiliation. Keep container away from heat , flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.
Environmental precautions	
Environmental precautions	Vapors can accumulate in low areas. Do not flush into surface water or sanitary sewer system. Report spills as required by local and federal regulations.

## Methods and materials for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.		
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 contact with skin, eyes and clothing. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.		
Conditions for safe storage, including any incompatibilities			
Technical measures/Storage conditions	Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.		
Incompatible products	Strong acids, alkalis, or oxidizing agents.		
Aerosol Level	1		

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
PROPANE/ISOBUTANE/N-BUTANE	74-98-6: TWA: 1000 ppm	74-98-6:TWA: 1000 ppm	74-98-6:IDLH: 2100 ppm
68476-86-8	106-97-8: STEL: 1000 ppm	TWA: 1800 mg/m <sup>3</sup>	TWA: 1000 ppm
	75-28-5: STEL: 1000 ppm	(vacated) TWA: 1000 ppm	TWA: 1800 mg/m <sup>3</sup>
		(vacated) TWA: 1800 mg/m <sup>3</sup>	106-97-8:TWA: 800 ppm
		106-97-8: (vacated) TWA: 800	TWA: 1900 mg/m <sup>3</sup>
		ppm	75-28-5:TWA: 800 ppm
		(vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>
ISOPROPYL ALCOHOL	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m <sup>3</sup>
		(vacated) TWA: 980 mg/m <sup>3</sup>	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m <sup>3</sup>
		(vacated) STEL: 1225 mg/m <sup>3</sup>	
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*´	

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** 

## Engineering Measures

Eyewash stations Ventilation systems.

Showers

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses with side-shields.
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 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 Appearance Color	Aerosol Clear	Odor Odor Threshold	Solvent
<u>Property</u> pH Melting/freezing point Boiling point/boiling range	<u>Values</u> No information available No information available	Remarks • Methods	
Flash Point Evaporation rate Flammability (solid, gas) Flammability Limits in Air upper flammability limit lower flammability limit	-91 °C / -132 °F No information available No information available	Based on propellant	
Vapor pressure Vapor density Specific Gravity Water solubility Partition coefficient: n-octanol/water	0.675 Practically insoluble		
Autoignition temperature Decomposition temperature Viscosity Explosive properties	No information available No information available	Not applicable	
Other information VOC Content(%)	11.45		

# **10. STABILITY AND REACTIVITY**

## Reactivity

Stable under recommended storage conditions

#### Chemical stability

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal processing.

## Conditions to Avoid

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

Strong acids, alkalis, or oxidizing agents.

#### Hazardous Decomposition Products

Carbon oxides. Fumes. Hydrocarbons.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	Product does present an acute toxicity hazard based on known information
Inhalation	Exposure to high vapor concentrations may cause nervous systems effects such as headache, dizziness, and nausea.
Eye contact	May cause eye irritation.
Skin contact	May be harmful in contact with skin.
Ingestion	May be harmful if swallowed.

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ISOPROPYL ALCOHOL 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m³(Rat)4 h
2-BUTOXYETHANOL 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat)4 h
AMMONIA 1336-21-6	= 350 mg/kg (Rat)	-	-

#### Information on toxicological effects

Symptoms

May cause skin and eye irritation. May cause respiratory irritation.

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

Skin corrosion/irritation	May cause irritation to skin.
Eye damage/irritation	May cause eye irritation.
Irritation	May cause skin, eye and respiratory irritation.
Sensitization	None known.
Germ Cell Mutagenicity	None known.
Carcinogenicity	The table below indicates whether each agency has evaluated a listed ingredient as a
	carcinogen.

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

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 OSHA: (Occupational Safety & Health Administration) X - Present **Reproductive toxicity** No information available. Specific target organ systemic No known effect based on information supplied. toxicity (single exposure) Specific target organ systemic No known effect based on information supplied. toxicity (repeated exposure) Chronic toxicity No information available.

ATEmix (inhalation-dust/mist) 135.2 mg/l

Target Organ Effects	Central Nervous System, Peripheral Nervous System, Eyes, Kidney, Liver, Lungs, Respiratory System, Skin, Blood, and Hematopoietic System through prolonged or repeated exposure.
Aspiration hazard	No known effect based on information supplied.
Numerical measures of toxicity - Pr	roduct Information
Unknown Acute Toxicity	0.000003% 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)	42353 mg/kg
ATEmix (dermal)	99124 mg/kg

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
ISOPROPYL ALCOHOL 67-63-0	1000 mg/L EC50 Desmodesmus subspicatus 96h 1000 mg/L EC50 Desmodesmus subspicatus 72h	9640 mg/L LC50 Pimephales promelas 96h flow-through 11130 mg/L LC50 Pimephales promelas 96h static 1400000 µg/L LC50 Lepomis macrochirus 96h	-	13299 mg/L EC50 Daphnia magna 48h
2-BUTOXYETHANOL 111-76-2	-	1490 mg/L LC50 Lepomis macrochirus 96h static 2950 mg/L LC50 Lepomis macrochirus 96h	-	1000 mg/L EC50 Daphnia magna 48h
AMMONIA 1336-21-6	-	8.2 mg/L LC50 Pimephales promelas 96h	-	0.66 mg/L EC50 water flea 48h 0.66 mg/L EC50 Daphnia pulex 48h

## Persistence and degradability

## **Bioaccumulation**

Chemical Name	log Pow
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	<=2.8
ISOPROPYL ALCOHOL 67-63-0	0.05
2-BUTOXYETHANOL 111-76-2	0.81

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.
Contaminated packaging	Do not re-use empty containers.

## **14. TRANSPORT INFORMATION**

#### DOT Ground

IMDG

CONSUMER COMMODITY ORM-D or LIMITED QUANTITY

ΙΑΤΑ	UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

UN1950, AEROSOLS, 2.1, LTD.QTY.

## **15. REGULATORY INFORMATION**

## International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
PROPANE/ISOBUTA NE/N-BUTANE	Х	X	Х	Not listed	Х	Х	Х	Х
ISOPROPYL ALCOHOL	Х	X	Х	Х	Х	Х	Х	Х
2-BUTOXYETHANOL	Х	Х	Х	Х	Х	Х	Х	Х
AMMONIA	Х	X	X	Х	X	Х	Х	Х

### 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

#### <u>SARA 313</u>

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 %
ISOPROPYL ALCOHOL - 67-63-0	67-63-0	1-10	1.0
2-BUTOXYETHANOL - 111-76-2	111-76-2	1-10	1.0
AMMONIA - 1336-21-6	1336-21-6	0.1-1	1.0

## SARA 311/312 Hazard Categories

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

#### **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):

## F00137 - MS-1025 GLASS CLEANER

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
AMMONIA 1336-21-6	1000 lb			Х

#### 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 1336-21-6	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

# U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
ETHYLENE GLYCOL - 107-21-1	Developmental

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ISOPROPYL ALCOHOL	Х	Х	Х
67-63-0			
2-BUTOXYETHANOL	Х	Х	Х
111-76-2			
AMMONIA	Х	Х	Х
1336-21-6			

EPA Pesticide Registration Number Not applicable

## <u>Canada</u>

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**

NFPA	Health Hazard 2	Flammability 4	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 2*	Flammability 4	Physical Hazard 1	Personal protection B
Chronic Hazard Star Lege	nd Chronic Hea damage	alth Star Hazard Repeated	or prolonged exposure may caus	se central nervous system

Issuing date27-Oct-2016Revision Date27-Oct-2016Revision Note27-Oct-2016

## F00137 - MS-1025 GLASS CLEANER

**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