# **Safety Data Sheet**

# FLASH-20

#### **SECTION 1. IDENTIFICATION**

Product Identifier FLASH-20
Other Means of Glass cleaner

Identification

Product Family Ready to use

Recommended Use Glass cleaner and shiny surface.

Restrictions on Use For industrial/professional use only.

Manufacturer/Supplier Maunco Cleaning Supplies Warehouse

Identifier

270 Adam Street

14011111101

Belleville, ON, K8N 5S4

Canada 613-962-0437 www.maunco.com

Emergency Phone No. not available

## **SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

#### Classification

Flammable liquid - Category 3; Acute toxicity (Oral) - Category 4; Acute toxicity (Dermal) - Category 4; Acute toxicity (Inhalation) - Category 4; Eye irritation - Category 2A; Specific target organ toxicity (single exposure) - Category 2

### **Label Elements**







Signal Word:

Warning

Flammable liquid and vapour.

Causes serious eye irritation.

Harmful if swallowed, in contact with skin or if inhaled.

May cause damage to organs (nervous system) if swallowed in large quantity.

Precautionary Statement(s):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting//equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

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If SWALLOWED: Rinse mouth, do not induce vomiting. Call immediately a POISON CENTRE/doctor. Swallowed in large quantity, directly in hospital.

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

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 or attention.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

None known.

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

#### Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
2-Propanol	67-63-0	5-10	none	Isopropanol
Methanol	67-56-1	5-10	none	none

#### **Notes**

Concentrations are expressed in % weight/weight.

### **SECTION 4. FIRST-AID MEASURES**

#### **First-aid Measures**

#### Inhalation

Take precautions to prevent a fire (e.g. remove sources of ignition). Move to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor.

#### **Skin Contact**

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

#### **Eye Contact**

Remove contact lenses, if present and easy to do. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Get medical attention if redness persist.

# Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Immediately call a Poison Centre or doctor. If large quantities are ingested, immediately bring the person to the hospital.

#### **First-aid Comments**

If inhaled or swallowed in large amounts, effects may be delayed. Keep the victim under observation.

#### Most Important Symptoms and Effects, Acute and Delayed

If inhaled: can irritate the nose and throat. At high concentrations can cause effects as described for swallowed. If swallowed: at high concentrations can harm the nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. If on skin: may cause mild irritation. Repeated or prolonged exposure can irritate the skin. If in eyes: symptoms include sore, red eyes, and tearing. May cause moderate to severe irritation.

#### Immediate Medical Attention and Special Treatment

#### **Target Organs**

No further relevant information available.

#### **Special Instructions**

Not applicable.

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### **Medical Conditions Aggravated by Exposure**

None known.

# **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

### **Suitable Extinguishing Media**

Use foam or other suitable extinguishing agent. Carbon dioxide, dry chemical powder or appropriate foam.

#### **Unsuitable Extinguishing Media**

Water. Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific Hazards Arising from the Product

Extremely flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. Can be ignited by static discharge.

In a fire, the following hazardous materials may be generated: toxic chemicals.

# **Special Protective Equipment and Precautions for Fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Toxic gases may be released during decomposition at very high temperatures. Flash point 38°C close cup.

No further information are available.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Get expert advice. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources if safe to do so. Use personal protective equipment. Follow handling tips and recommendations for protective gear.

#### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. Minimize the use of water to prevent environmental contamination.

### Methods and Materials for Containment and Cleaning Up

Do not use absorbents. Contain spill using noncombustible material such as vermiculite, earth or sand. Place used absorbent into suitable, covered, labelled containers for disposal. Remove or recover liquid using pumps or vacuum equipment. Clean and rinse contaminated surfaces with water.

#### **Other Information**

Dispose of solid materials or residues in an authorized centre.

### **SECTION 7. HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Only use where there is adequate ventilation.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep containers tightly closed when not in use or empty. Wash hands thoroughly after handling. General Hygiene: When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Take off all contaminated clothing and wash it before reuse. Keep the container tightly closed. Avoid inhaling vapours or fumes from this product.

# **Conditions for Safe Storage**

Store in an area that is: cool, well-ventilated, out of direct sunlight and away from heat and ignition sources. Store separate from incompatible materials: Ammonia, strong acids (e.g. hydrochloric acid), organic acids (e.g. acetic acid), Urea, Oxidizing agents (e.g. peroxides), and some metal (ref section 10). Store separate from incompatible materials: Oxidizing agents (e.g. peroxides).

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

#### **Control Parameters**

	ACGIH®	ACGIH® TLV®		OSHA PEL		AIHA® WEEL®	
Chemical Name	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]	
2-Propanol	200 ppm	400 ppm	400 ppm				
Methanol	200 ppm Skin	250 ppm Skin	200 ppm				

Consult local authorities for provincial exposure limits.

### **Appropriate Engineering Controls**

Provide evewash in work area.

For large scale use of this product: use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Do not allow product to accumulate in the air in work or storage areas, or in confined spaces.

### **Individual Protection Measures**

#### **Eye/Face Protection**

Wear chemical safety goggles.

#### **Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: polyethylene, polyvinyl alcohol, butyl rubber.

The following materials should NOT be used: nitrile rubber. leather.

# **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. Wear a NIOSH approved powered air-purifying respirator with an appropriate cartridge. Type AX.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Basic Physical and Chemical Properties**

**Appearance** Clear blue liquid.

Odour Alcoholic
Odour Threshold 400 ppm
pH 10.4

Melting Point/Freezing Point Not applicable (melting); Not available (freezing)

Initial Boiling Point/Range 83 °C

Flash Point 38 °C (closed cup)
Evaporation Rate Not available
Flammability (solid, gas) Not applicable

**Upper/Lower Flammability or** 

**Explosive Limit** 

12% (upper); 2% (lower)

Vapour Pressure 33 mm Hg

Vapour Density (air = 1) 2.1 Relative Density (water = 1) 0.976

**Solubility** Miscible in any proportion in water; Not available (in other liquids)

Partition Coefficient, Not applicable

n-Octanol/Water (Log Kow)

Auto-ignition Temperature 399 °C

**Decomposition Temperature** Not available

Viscosity Not available (kinematic); Not available (dynamic)

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### **SECTION 10. STABILITY AND REACTIVITY**

### Reactivity

Heating may cause an explosion.

#### **Chemical Stability**

Normally stable.

#### **Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

#### **Conditions to Avoid**

Heat. High temperatures. Sunlight. Open flames, sparks, static discharge, heat and other ignition sources.

#### **Incompatible Materials**

Strong oxidizing agents (e.g. perchloric acid).

### **Hazardous Decomposition Products**

Thermal decomposition on burning may produce toxic gases.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified. ATE = Acute toxicity estimates. Calculate by Canwrite function as per 5th revised edition of the GHS purple book (Chapter 3.1).

### **Likely Routes of Exposure**

Inhalation; ingestion; skin contact; eye contact; skin absorption.

#### **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Propanol	17000 ppm (rat) (4-hour exposure)	4720 mg/kg (male rat)	12890 mg/kg (rabbit)
Methanol	64000 ppm (4-hour exposure)	> 5850 mg/kg (rat)	15800 mg/kg (rabbit)

Inhalation ATEmix = 191887 mg/L (4-hour exposure) (vapour)

Oral ATEmix = 37318 mg/kg

Dermal ATEmix = 101410 mg/kg

#### Skin Corrosion/Irritation

Direct skin contact may cause irritation. Repeated or prolonged exposure can irritate or burn the skin.

### Serious Eye Damage/Irritation

Symptoms include sore, red eyes, and tearing. The vapour also irritates the eyes.

#### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

Inhalation of vapours may cause irritation of the respiratory system and high concentration may cause irritation to the nervous system which may cause the following symptoms: headache, nausea, loss of coordination.

#### **Skin Absorption**

No information was located.

### Ingestion

(Methanol) harmful Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

#### **Aspiration Hazard**

Aspiration of high concentration of mist may cause severe irritation or burns to the respiratory tract.

#### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Repeated or prolonged skin contact to dilute solutions is expected to cause drying, cracking, and inflammation of the skin (dermatitis).

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#### Respiratory and/or Skin Sensitization

No information available.

### Carcinogenicity

No information was located.

## **Reproductive Toxicity**

### **Development of Offspring**

No information was located.

### **Sexual Function and Fertility**

No information was located.

#### **Effects on or via Lactation**

No information was located.

#### **Germ Cell Mutagenicity**

No information was located.

#### Interactive Effects

No information was located.

# **Other Information**

Sources for toxicity values:

- -RTECS® is provided quarterly by BIOVIA, and was last updated: September, 2018.
- -CHEMINFO (Toxicological information)

#### **SECTION 12. ECOLOGICAL INFORMATION**

Environmental information was not located.

#### **Ecotoxicity**

No information was located.

#### Persistence and Degradability

No information was located.

#### **Bioaccumulative Potential**

No information was located.

### **Mobility in Soil**

No information was located.

#### **Other Adverse Effects**

There is no information available.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Empty containers retain product residue. Follow label warnings even if container appears to be empty. Dispose of contents and container in accordance with local, regional, national and international regulations. The container can be recycle if it dry and clean.

# **SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1993	Liquide inflammable, N.S.A., (Methanol)	3	Ш

**Special Precautions** Please note: In accordance with the exemption from TDG 1.33 General Exemption for Class 3, Flammable Liquids. Not regulated for small means of containement <450L.

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#### **SECTION 15. REGULATORY INFORMATION**

#### Safety, Health and Environmental Regulations

This section is not required by WHMIS.

#### Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### SECTION 16. OTHER INFORMATION

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**Key to Abbreviations** 

LC 50 = Letal concentration

LD 50 = Letal dose

PEL= Permissible exposure limit. (OSHA HCS limit)

TLV = Threshold Limit Value (ACGIH limit)

TWA = Time-Weighted Average

STEL [C] = Short Term Exposure Limit [ceiling]

OSHA = Occupational Safety and Health Administration (United States) ACGIH® - American Conference of Governmental Industrial Hygienists

AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank

IARC = International Agency for Research on Cancer

NIOSH = National Institute for Occupational Safety and Health

NTP = National Toxicology Program

RTECS® = Registry of Toxic Effects of Chemical Substances

CNESST = Committee on Standards, Equity, Health and Safety at Work (Quebec)

References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault

Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

Manufacturer datasheets.

Disclaimer

The information in this safety data sheet are, to our knowledge, according to our information and belief, accurate at the date of publication. This information is provided as a guide for the safe handling, use, processing, storage, transportation, disposal and disposal of the product, and should not be considered as any guarantee or quality standard. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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