# SAFETY DATA SHEET

According to Canada's Hazardous Products Regulations (HPR) SOR/2015-17

# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier				
Chemical Name	Mixture			
CAS No.	Mixture			
Trade Name	MICHELIN GLASS CLEANER			
Product Code	6000			
Relevant identified uses of the substance or mixture and uses	advised against			
Identified Use(s)	Cleaning product			
Uses Advised Against	None			
Company Identification	Kleen-Flo Tumbler Ind. Ltd.			
	75 Advance Blvd., Brampton, ON			
	L6T 4N1			
Telephone	905-793-4311			
Fax	905-793-4318			
Emergency telephone number				
Emergency Phone No.	CANUTEC: 613-996-6666			
SECTION 2: HAZARDS IDENTIFICATION				
Classification of the substance or mixture				

HPR/WHIMIS 2015/GHS Classification

Label elements

Hazard Symbol



None

Liquefied gas

Signal Word(s) Hazard Statement(s) Precautionary Statement(s)

Contains gas under pressure; may explode if heated. Protect from sunlight and store in well-ventilated place. Do not expose to temperatures exceeding 50°C/ 122°F.

Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Propane 1-5		74-98-6	Flam. Gas 1, H220
Propane	1-5	74-96-6	Press. Gas (*)
Dutana	1 - 5	106-97-8	Flam. Gas 1, H220
Butane		100-97-0	Press. Gas (*)
Isopropanol 1 – 5	67-63-0	Flam. Liq. 2; H225	
		Eye Irrit. 2: H319	
			Acute. Tox. 4; H302, H312, H332
2-Butoxyethanol	1 - 5	111-76-2	Skin Irrit. 2; H315
-			Eye Irrit. 2a; H319
Aqua ammonia	0.1-1	1336-21-6	Skin Irrit. 2; H315
	0.1-1		Eye Irrit. 2; H319

### Additional Information - None

\* The exact percentage withheld as a trade secret.

## **SECTION 4: FIRST AID MEASURES**



#### Description of first aid measures

Description of mist aid measures	
Inhalation	Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If symptoms develop, obtain medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
Ingestion	Immediately call a POISON CENTER or doctor/physician. Do not give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	None anticipated
Indication of any immediate medical attention and special treatment needed	None anticipated

SECTION 5: FIRE-FIGHTING MEASURE	S
Extinguishing Media	
-Suitable Extinguishing Media -Unsuitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or water spray. Do not use water jet.
Special hazards arising from the substance or mixture	Pressurised container: May burst if heated
Advice for fire-fighters	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes.
Environmental precautions	Prevent liquid entering sewers, basements and workpits.
Methods and material for containment and cleaning up	Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.
Reference to other sections Additional Information	None None

# **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

Use product in a well-ventilated area only. Avoid contact with skin and eyes. Ground/bond container and receiving equipment.

#### Conditions for safe storage, including any incompatibilities

-Storage temperature

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

-Incompatible materials

This product should be stored away from sources of strong heat or oxidising chemicals.

Specific end use(s)

Cleaning product

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

		(8hr TWA)		(STEL)		
		OEL	TLV	OEL	TLV	
SUBSTANCE.	CAS No.	(Canada)	(ACGIH)	(Canada	(ACGIH)	Note:
n-Butane	106-97-8		250 ppm			
Propane	74-98-6	1000 ppm	Aspyx. <sup>#</sup>			#
Isopropanol	67-63-0	200 ppm		500 ppm		
2-Butoxyethanol	111-76-2	20 ppm	20 ppm			
Ammonia	7664-41-7	25 ppm	25 ppm	35 ppm	35 ppm	

I); NIOSH 1403 (Alcohols IV).

<sup>#</sup>Assure minimum oxygen content of work atmosphere.

#### **Recommended monitoring method**

#### Exposure controls

Appropriate engineering controls

#### Personal protection equipment

Eye/face protection



Skin protection (Hand protection/ Other)



In case of insufficient ventilation, wear suitable respiratory equipment.

Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber).

NIOSH 1500 (hydrocarbons, B.P. 36 - 216 °C); NIOSH 1400 (Alcohols

Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapour etc) below recommended exposure limits.

Wear protective eyewear (goggles, face shield, or safety glasses).

Respiratory protection



Thermal hazards

Not normally required.

**Environmental Exposure Controls** 

None known

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance Color. Odour Odour Threshold (ppm) pH (Value) Melting Point (°C) / Freezing Point (°C) Liquid / Liquefied gas Clear Not available Not available Not available Not available

Boiling point/boiling range (°C): Flash Point (°C) **Evaporation Rate** Flammability (solid, gas) Explosive Limit Ranges Vapour pressure (Pascal) Vapour Density (Air=1) Density (g/ml) Solubility (Water) Solubility (Other) Partition Coefficient (n-Octanol/water) Auto Ignition Point (°C) Decomposition Temperature (°C) Kinematic Viscosity (cSt) Explosive properties Oxidising properties

Not available Non-flammable Not available Non-flammable Not applicable Not available Not available Not available Not available Not available Not available Non-flammable Not available <20 Not explosive. Not oxidising.

Not available

Other information

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition product(s)<sup>\*\*\*</sup> Stable under normal conditions. Stable. None anticipated. Avoid contact with heat and ignition sources. Strong oxidising agents None known

## SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

<b>Mixtures</b> Acute toxicity Irritation / Corrosivity	LD50 >5000 mg/kg-bw Causes serious eye irritation.
Substances in preparations / mixtures	
Propane (CAS# 74-98-6):	
Acute toxicity Irritation/Corrosivity Sensitisation	Inhalation: LC50 = 1237 mg/L (2-hr, mouse, gas) No evidence of irritant effects from normal handling and use. It is not a skin sensitizer.
Repeated dose toxicity	NOAEC: ≥19678 mg/m3 (28-day, rat, Systemic effects) LOAEC: 21641 mg/m3 (28-day, rat, effects: Body weight)
Carcinogenicity Mutagenicity Reproductive toxicity	No data. It is unlikely to present a carcinogenic hazard to man. There is no evidence of mutagenic potential. None anticipated

## **SECTION 12: ECOLOGICAL INFORMATION**

Aquatic toxicity: Short term Long Term

LC50 (96 hour): >100 mg/L *(Fish)* NOAEC (28 days): >100 mg/I *(Fish*) QSAR

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

## **SECTION 14: TRANSPORT INFORMATION**

	Land transport <u>(TDG)</u>	Sea transport (IMDG)	Air transport <u>(ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, non-flammable	Aerosols, non-flammable	Aerosols, non-flammable
Transport hazard class(es)	2.2	2.2	2.2
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

This product is exempted under TDG section 1.17 as limited quantity and can be shipped as limited quantity.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

### **SECTION 15: REGULATORY INFORMATION**

#### Safety, health and environmental regulations/legislation specific for the substance or mixture:

This product has been classified in accordance to CPR Section 12 and the MSDS contains all the information required by the CPR.

Canada (DSL/NDSL) - All chemicals listed.

## **SECTION 16: OTHER INFORMATION**

### The following sections contain revisions or new statements: 1-16.

Date of preparation: April 18, 2017

**Guidelines for SDS use**: The product described in this SDS is a consumer product. It is safe for use by consumers as described on the product label under normal, foreseeable conditions. This SDS is designed to provide additional safety and handling information.

#### Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapour.
- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H311: Toxic in contact with skin.
- H312: Harmful in contact with skin.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H330: Fatal if inhaled.
- H331: Toxic if inhaled.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H370: Causes damage to organs.

#### Training advice: None.

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