# SAFETY DATA SHEET



1. Identification K3

**Product identifier** FMSI THE GLASS CLNR APPLE NOAMM510G (K3)

Other means of identification

**Product code** 1000021074 Recommended use cleaner None known. **Recommended restrictions** 

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name **FMSI AUTOMOTIVE HARDWARE** 

**Address** 1070 HERITAGE ROAD

BURLINGTON, ON L7L 4X9

Canada

Telephone General Assistance

Not available. E-mail

1.800.651.7445 1-866-836-8855

Emergency - US **Emergency phone number** 

> Emergency - Outside US 1-952-852-4646

**Supplier** Not available.

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Not classified. **Health hazards** 

Label elements



Signal word Danger

**Hazard statement** Extremely flammable aerosol.

**Precautionary statement** 

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

Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

Response Wash hands after handling.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Dispose of waste and residues in accordance with local authority requirements. **Disposal** 

Other hazards None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Isobutane		75-28-5	5.171
2-Butoxyethanol		111-76-2	3.756
Isopropyl Alcohol		67-63-0	1.878
Propane		74-98-6	0.927
Other components below report	able levels		88.27

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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### 4. First-aid measures

Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

Direct contact with eyes may cause temporary irritation.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

**Eve contact** Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

**Most important** 

symptoms/effects, acute and delayed

Indication of immediate

Treat symptomatically.

Not available.

medical attention and special treatment needed

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

Specific hazards arising from

the chemical Special protective equipment

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do

not breathe fumes.

General fire hazards

Extremely flammable aerosol.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame. heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

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# 8. Exposure controls/personal protection

# Occupational exposure limits

upational exposure limits		
JS. ACGIH Threshold Limit Value	es	
Components	Туре	Value
2-Butoxyethanol (CAS 11-76-2)	TWA	20 ppm
sobutane (CAS 75-28-5)	STEL	1000 ppm
sopropyl Alcohol (CAS 17-63-0)	STEL	400 ppm
,	TWA	200 ppm
Canada. Alberta OELs (Occupati Components	onal Health & Safety Code, Sc Type	hedule 1, Table 2) Value
2-Butoxyethanol (CAS	TWA	07 mg/m2
111-76-2)	TWA	97 mg/m3 20 ppm
sopropyl Alcohol (CAS 37-63-0)	STEL	984 mg/m3
7-03-0)		400 ppm
	TWA	492 mg/m3
	. **/ 1	200 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
		ts for Chemical Substances, Occupational Health and
afety Regulation 296/97, as ame	ended)	•
Components	Туре	Value
-Butoxyethanol (CAS 11-76-2)	TWA	20 ppm
sopropyl Alcohol (CAS 17-63-0)	STEL	400 ppm
	TWA	200 ppm
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)
Components	Туре	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
sobutane (CAS 75-28-5)	STEL	1000 ppm
sopropyl Alcohol (CAS i7-63-0)	STEL	400 ppm
	TWA	200 ppm
Canada. Ontario OELs. (Control Components	of Exposure to Biological or C Type	Nemical Agents) Value
2-Butoxyethanol (CAS I11-76-2)	TWA	20 ppm
sobutane (CAS 75-28-5)	TWA	800 ppm
sopropyl Alcohol (CAS ´ 7-63-0)	STEL	400 ppm
<del>-</del> /	TWA	200 ppm
Canada. Quebec OELs. (Ministry Components	of Labor - Regulation Respect	ting the Quality of the Work Environment) Value
	TWA	07 mg/m²
l-Butoxyethanol (CAS 11-76-2)	IVVA	97 mg/m3
sonronyl Alcohol (CAS	QTEI	20 ppm 1230 mg/m3
sopropyl Alcohol (CAS 37-63-0)	STEL	1230 mg/m3
		500 ppm
	TWA	983 mg/m3
		400 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3
		1000 nnm

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1000 ppm

### **Biological limit values**

no on Enrogram Expression manero					
Components	Value	Determinant	Specimen	Sampling Time	
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*	
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

**Physical state** Gas. **Form** Aerosol. Not available. Color Not available. Odor **Odor threshold** Not available. Not available. Ηq Melting point/freezing point Not available.

Initial boiling point and boiling

range

199.23 °F (92.91 °C) estimated

Flash point -99.4 °F (-73.0 °C) propellant estimated

**Evaporation rate** Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure Not available. Not available. Vapor density Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

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**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Specific gravity 0.966 estimated

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

**Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materialsStrong oxidizing agents. Nitrates. Fluorine. Chlorine.Hazardous decompositionNo hazardous decomposition products are known.

products

# 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

# Acute toxicity

Components	Species	Test Results	
2-Butoxyethanol (CAS 111-	-76-2)		
<u>Acute</u>			
Dermal			
LD50	Guinea pig	7.3 ml/kg, 4 Days	
		0.23 ml/kg, 24 Hours	
	Rabbit	435 mg/kg, 24 Hours	
		0.68 ml/kg, 24 Hours	
		0.63 ml/kg	
	Rat	> 2000 mg/kg, 24 Hours	
Inhalation			
LC50	Rabbit	400 ppm, 7 Hours	
	Rat	450 ppm, 4 Hours	
Oral			
LD100	Rabbit	695 mg/kg	
LD50	Dog	> 695 mg/kg	
	Guinea pig	1414 mg/kg	
	Mouse	1519 mg/kg	
	Rat	1746 mg/kg	

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Components Species Test Results

Isobutane (CAS 75-28-5)

<u>Acute</u>

Inhalation

LC50 Mouse 1237 mg/l, 120 Minutes

52 %, 120 Minutes

Rat 1355 mg/l

Isopropyl Alcohol (CAS 67-63-0)

<u>Acute</u>

Dermal

LD50 Rabbit 16.4 ml/kg, 24 Hours

Inhalation

LC50 Rat > 10000 ppm, 6 Hours

Oral

LD50 Rat 5.84 g/kg

Propane (CAS 74-98-6)

Acute Inhalation

LC50 Mouse 1237 mg/l, 120 Minutes

52 %, 120 Minutes

Rat 1355 mg/l

658 mg/l/4h

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

2-Butoxyethanol (CAS 111-76-2) Irritant

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

**ACGIH Carcinogens** 

2-Butoxyethanol (CAS 111-76-2)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

Isopropyl Alcohol (CAS 67-63-0)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

2-BUTOXYETHANOL (EGBE) (CAS 111-76-2) Confirmed animal carcinogen with unknown relevance to humans.

2-PROPANOL (CAS 67-63-0) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

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**Aspiration hazard** Not an aspiration hazard.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

## 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
2-Butoxyethanol (CAS	3 111-76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
Isopropyl Alcohol (CA	S 67-63-0)		
Aquatic			
Algae	IC50	Algae	1000.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
			-

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

#### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

0.83 2-Butoxyethanol Isobutane 2.76 0.05 Isopropyl Alcohol Propane 2.36

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents **Disposal instructions** 

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

# 14. Transport information

**TDG** 

**UN number** UN1950

**UN proper shipping name** AEROSOLS, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk

Not applicable. Packing group

**Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

This product meets the exemption requirements and may be shipped as a limited quantity.

IATA

UN1950 **UN** number

**UN proper shipping name** Aerosols, flammable

Product name: FMSI THE GLASS CLNR APPLE NOAMM510G 7/9

Product #: 1000021074 Version #: 02 Issue date: 04-25-2020 Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN1950 **UN** number **UN** proper shipping name **AEROSOLS** 

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Not applicable. Packing group

**Environmental hazards** 

Marine pollutant No. F-D, S-U **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling. Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG; TDG



## 15. Regulatory information

#### Canadian regulations

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

Not applicable.

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#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### International Inventories

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Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No

New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other Information

New Zealand

Philippines

Issue date 04-25-2020

Version #

Disclaimer The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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

No

No

Yes

materials or in any process, unless specified in the text.

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