

### SAFETY DATA SHEET

### 1. Identification

**Product identifier Ultra-Clear Spray Glass Cleaner** 

Other means of identification

FIR No. 019761

Recommended use Glass Cleaner **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

**Company Name** Ford Motor Company

**Address** Attention: MSDS Information, P.O. Box 1899

Dearborn, Michigan 48121

USA

1-800-392-3673 **Telephone MSDS Information** 1-800-448-2063

msds@brownart.com

**Emergency telephone** 

numbers

Poison Control Center: USA and Canada: 1-800-959-3673 INFOTRAC (Transportation): USA and Canada 1-800-535-5053

### 2. Hazard(s) identification

Physical hazards Gases under pressure Dissolved gas

Not classified. **Health hazards Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Contains gas under pressure; may explode if heated.

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Protect from sunlight. Store in a well-ventilated place.

Dispose of waste and residues in accordance with local authority requirements. **Disposal** 

Hazard(s) not otherwise

classified (HNOC)

May cause irritation of respiratory tract. May irritate eyes and skin. Vapors have a narcotic effect

and may cause headache, fatigue, dizziness and nausea.

Supplemental information None.

## 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
PROPAN-2-OL		67-63-0	3 - < 5
BUTANE		106-97-8	1 - < 3

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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### 4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

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

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if Eye contact

irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. Ingestion

Most important symptoms/effects, acute and delaved

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

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

## 5. Fire-fighting measures

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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

During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. 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 General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Remove all possible sources of ignition in the surrounding area. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors or mists. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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 Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

# 7. Handling and storage

Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place out of direct sunlight. Secure cylinders in an upright position at all times, close all valves when not in use. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation.

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### 8. Exposure controls/personal protection

### Occupational exposure limits

Components	Туре	Value	
PROPAN-2-OL (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
BUTANE (CAS 106-97-8)	STEL	1000 ppm	
PROPAN-2-OL (CAS 67-63-0)	STEL	400 ppm	
·	TWA	200 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Type	Value	
BUTANE (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
PROPAN-2-OL (CAS 67-63-0)	STEL	1225 mg/m3	
,		500 ppm	
	TWA	980 mg/m3	
		400 ppm	

### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time
PROPAN-2-OL (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

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

# Appropriate engineering controls

Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

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

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

Skin protection

**Hand protection** 

nystation

Suitable chemical protective gloves should be worn when the potential exists for prolonged or repeated skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Nitrile gloves are

recommended.

Other Wear suitable protective clothing. Wear appropriate chemical resistant clothing if applicable.

Respiratory protection If engineering controls do not maintain airborne concentrations to a level which is adequate to

protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection

Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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**

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Physical state Liquid.
Form Aerosol.
Color Clear.
Odor Alcoholic.
Odor threshold Not available.

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**pH** 10 ASTM D1293

pH concentration 100 % v/v Melting point/freezing point Not available. Initial boiling point and boiling  $< -0.4 \,^{\circ}F \, (< -18 \,^{\circ}C)$ 

range

Flash point -20.2 °F (-29.0 °C) PMCC

Evaporation rate > 1 (Ether=1)
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1.9 % Explosive limit - upper (%) 12.7

Vapor pressure Not available.
Vapor density > 1 (AIR=1)

Relative density 0.95

Relative density temperature 68 °F (20 °C)

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Heat of combustion 2.95 kJ/g VOC (Weight %) 8 %

# 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 Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular

**products** weight hydrocarbons.

### 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful. May cause irritation to the respiratory system. Vapors have

a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Skin contact** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

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

**Ingestion** May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** 

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Components Species Calculated/Test Results

**BUTANE (CAS 106-97-8)** 

Acute

Inhalation

LC50 Mouse 680 mg/l, 2 Hours

Rat 658 mg/l, 4 Hours

PROPAN-2-OL (CAS 67-63-0)

Acute

Dermal

LD50 Rabbit 12800 mg/kg

Oral

LD50 Dog 4797 mg/kg

 Mouse
 3600 mg/kg

 Rabbit
 5.03 g/kg

 Rat
 4.7 g/kg

Skin corrosion/irritation Serious eye damage/eye

irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

**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 This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**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.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

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.

**Ecotoxicity** 

Components Species Calculated/Test Results

PROPAN-2-OL (CAS 67-63-0)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

BUTANE 2.89 PROPAN-2-OL 0.05

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.

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### 13. Disposal considerations

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

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

### 14. Transport information

DOT

<Unspecified>

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

Transport hazard class(es)

Class 2.2 Subsidiary risk 2.2 Label(s)

Packing group

Not applicable. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

<Unspecified>

UN1950 **UN** number

**UN proper shipping name** 

Transport hazard class(es)

AEROSOLS, NON-FLAMMABLE

Class 2.2 Subsidiary risk 2.2 Label(s)

Packing group Not applicable.

**Environmental hazards** 

Other information

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

Passenger and cargo

aircraft

Forbidden.

No.

Cargo aircraft only

Forbidden.

Not established.

**IMDG** 

<Unspecified>

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

Transport hazard class(es)

2.2 Class Subsidiary risk

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant

Not available. **EmS** 

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

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

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IATA; IMDG



# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

BUTANE (CAS 106-97-8) Listed. PROPAN-2-OL (CAS 67-63-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
PROPAN-2-OL	67-63-0	3 - < 5

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

**BUTANE (CAS 106-97-8)** 

Safe Drinking Water Act Not

Not regulated.

(SDWA)

**US state regulations** 

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

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#### **US. Massachusetts RTK - Substance List**

BUTANE (CAS 106-97-8) PROPAN-2-OL (CAS 67-63-0)

### US. New Jersey Worker and Community Right-to-Know Act

BUTANE (CAS 106-97-8) PROPAN-2-OL (CAS 67-63-0)

### US. Pennsylvania Worker and Community Right-to-Know Law

BUTANE (CAS 106-97-8) PROPAN-2-OL (CAS 67-63-0)

#### **US. Rhode Island RTK**

BUTANE (CAS 106-97-8) PROPAN-2-OL (CAS 67-63-0)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### **International Inventories**

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

### 16. Other information, including date of preparation or last revision

**Issue date** 05-16-2015

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HMIS® ratings Health: 2

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 2

Flammability: - Instability: 0

**Preparation Information and** 

Disclaimer

This document was prepared by FCSD-Toxicology, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA, based in part on information provided by the manufacturer. The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. To the extent that there are any differences between this product's Safety Data Sheet (SDS) and the consumer

packaged product labels, the SDS should be followed.

Part number(s) ZC-23

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