

# SAFETY DATA SHEET

#### 1. Identification

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

Other means of identification

019761 FIR No.

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

Manufacturer/Importer/Supplier/Distributor information

**Company Name** Ford Motor Company

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

Dearborn, Michigan 48121

USA

1-800-392-3673 **Telephone** 

**SDS Information** 1-800-448-2063 (USA and Canada)

fordsds.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

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

Label elements



Signal word

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

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Take off contaminated clothing and wash it before reuse. Response Protect from sunlight. Store in a well-ventilated place. **Storage** 

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

Hazard(s) not otherwise

May be irritating to eyes. Prolonged skin contact may cause temporary irritation. May cause classified (HNOC)

irritation of respiratory tract.

Supplemental information

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
BUTANE		106-97-8	3 - 5
PROPAN-2-OL		67-63-0	3 - 5
PROPANE		74-98-6	1 - 3

# 4. First-aid measures

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

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

Call a physician if symptoms develop or persist.

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

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

**In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.** 

Most important symptoms/effects, acute and delayed

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

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods
General fire hazards

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

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

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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.

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 Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep unnecessary personnel away. Keep out of low areas. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Wear appropriate protective equipment and clothing during clean-up.

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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. 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

Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Use only in well-ventilated areas. Do not smoke while using or until sprayed surface is thoroughly dry. When moving containers, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport containers. Protect containers from physical damage; do not drag, roll, slide, or drop. Pressurized container: Do not pierce or burn, even after use. Do not re-use empty containers. Do not use if spray button is missing or defective. Ground and bond containers when transferring material. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not spray on a naked flame or any other incandescent material. Observe good industrial hygiene practices. Wear appropriate personal protective equipment. For personal protection, see Section 8 of the SDS.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

110	OCHA T	hla 7 1	I imita f	A :	Contaminants	/20 CED	4040 4000
US.	USHA 18	301e Z-1	LIMITS T	or Air	Contaminants	(29 CFR	1910.10001

Components	Туре	Value	
PROPAN-2-OL (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
PROPANE (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 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	Туре	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	
PROPANE (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 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, appropriate 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** Suitable chemical protective gloves should be worn when the potential exists for 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 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

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.

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# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Aerosol.
Color Various.
Odor Not available.
Odor threshold Not available.

**pH** 10

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point -20.2 °F (-29.0 °C) Pensky-Martens Closed Cup

**Evaporation rate** > 1.4 (BuAc=1) **Flammability (solid, gas)** Not applicable.

Upper/lower flammability or explosive limits

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

Vapor pressure 101.3 kPa

Vapor density 1 (Air=1)

Relative density 0.96 (Water=1)

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Viscosity temperature

Not available.

> 20.5 cSt

104 °F (40 °C)

Other information

 $\begin{array}{ll} \mbox{Heat of combustion} & 2.95 \ \mbox{kJ/g} \\ \mbox{VOC} & 76 \ \mbox{g/l} \end{array}$ 

#### 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. Chlorine. Fluorine. Isocyanates. Nitrates.

incompatible materials Strong oxidizing agents. Chlorine, Fidorine, Isocyanates, Nitrates.

Hazardous decomposition

**products** weight hydrocarbons.

11. Toxicological information

# Information on likely routes of exposure

**Inhalation** Based on available data, the classification criteria are not met. May cause irritation to the

respiratory system. Prolonged inhalation may be harmful.

**Skin contact**Based on available data, the classification criteria are not met. Prolonged skin contact may cause

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

temporary irritation.

Eye contact Based on available data, the classification criteria are not met. Direct contact with eyes may

cause temporary irritation.

**Ingestion** Based on available data, the classification criteria are not met. May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

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Components	Species	Calculated/Test Results	
BUTANE (CAS 106-97-8)			
<u>Acute</u>			
Inhalation			
LC50	Mouse	680 mg/l, 2 Hours	
	Rat	658 mg/l, 4 Hours	
PROPAN-2-OL (CAS 67-63-0)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	12800 mg/kg	
Oral	_		
LD50	Dog	4797 mg/kg	
	Mouse	3600 mg/kg	
		4.5 g/kg	
	Rabbit	6410 mg/kg	
		8 g/kg	
		5.03 g/kg	
	Rat	5045 mg/kg	
		4.7 g/kg	
Other			
LD50	Mouse	4477 mg/kg	
		1509 mg/kg	
	Rat	2735 mg/kg	
		1099 mg/kg	
PROPANE (CAS 74-98-6)		3.3	
Acute			
Inhalation			
LC50	Rat	> 1464 mg/l, 15 Minutes	
		> 1443 mg/l, 15 Minutes	
Skin corrosion/irritation	Prolonged skin contact may cause temporar	<u>-</u>	
Serious eye damage/eye	Direct contact with eyes may cause tempora	•	
irritation		.,	
Respiratory or skin sensitization	1		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin se	ensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to hum	ans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
	d Substances (29 CFR 1910.1001-1053)		
Not listed.			
Reproductive toxicity	This product is not expected to cause reproduct	ductive 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.		
	,		

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### 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** 

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

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

**BUTANE** 2.89 PROPAN-2-OL 0.05 **PROPANE** 2.36

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

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

under pressure. Do not puncture, incinerate or crush. If discarded, this product is considered a

RCRA ignitable waste, D001. 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 D001: Waste Flammable material with a flash point <140 F

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

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

DOT

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

Transport hazard class(es)

Class 2.2 Subsidiary risk

Packing group Not available.

**Environmental hazards** 

Marine pollutant Nο

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

IATA

UN1950 **UN number** 

**UN proper shipping name** 

Transport hazard class(es)

AEROSOLS, Non-flammable

2.2 Class Subsidiary risk

Not available. Packing group

**Environmental hazards** 

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

**IMDG** 

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

Transport hazard class(es)

Class 2.2

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Subsidiary risk

Packing group

Not available.

**Environmental hazards** 

No. 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

Not established.

the IBC Code

DOT





# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910,1200.

**Toxic Substances Control Act (TSCA)** 

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. PROPANE (CAS 74-98-6) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

**Classified hazard** 

Gas under pressure

categories

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.

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

BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

#### US state regulations

### California Proposition 65



WARNING: This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Listed: February 27, 1987

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHYLENE OXIDE (CAS 75-21-8) Listed: July 1, 1987

California Proposition 65 - CRT: Listed date/Developmental toxin

ETHYLENE OXIDE (CAS 75-21-8) Listed: August 7, 2009

California Proposition 65 - CRT: Listed date/Female reproductive toxin

California Proposition 65 - CRT: Listed date/Male reproductive toxin

ETHYLENE OXIDE (CAS 75-21-8) Listed: August 7, 2009

#### 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

01-23-2023 Issue date

ETHYLENE OXIDE (CAS 75-21-8)

Version 01

Health: 1 **HMIS®** ratings

Flammability: 2 Physical hazard: 1

NFPA ratings Health: 1

Flammability: -Instability: 1

**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.

Product and Company Identification: Product Uses Revision information

> Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information

Regulatory Information: United States

GHS: Classification

Part number(s) ZC-23

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