# SAFETY DATA SHEET

#### 1. Identification

Product number 1017063-42719

Product identifier **ACORN GLASS & CRT CLEANER** Company information ACORN DISTRIBUTORS, INC.

INDIANAPOLIS, IN 46241 United States

Company phone Emergency telephone US Emergency

1-866-836-8855 1-952-852-4646

1-317-243-9234

telephone outside

US

Version # 01

Supersedes date 01-31-2014 Recommended use Glass Cleaner Recommended restrictions None known.

## 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1 Health hazards Reproductive toxicity Category 1B Specific target organ toxicity, single exposure Category 1

OSHA defined hazards Not classified.

Label elements



Danger Signal word

Extremely flammable aerosol. May damage fertility or the unborn child. Causes damage to Hazard statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response If exposed: Call a poison center/doctor. Specific treatment (see this label).

Storage Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Supplemental information

Not applicable.

## 3. Composition/information on ingredients

## Mixtures

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	2.5 - 10
Methanol		67-56-1	2.5 - 10
Ethyl Alcohol		64-17-5	1 - 2.5
Propane		74-98-6	1 - 2.5
Other components below reportable levels			90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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#### 4. First-aid measures

Inhalation

If symptoms develop move victim to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or Poison Control Center immediately. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.

Skin contact

Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Call a physician or Poison Control Center immediately. Get medical attention if irritation develops

and persists. Wash clothing separately before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Call a

physician or Poison Control Center immediately.

Ingestion

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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. Symptoms may be delayed.

General information

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

## 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 Water.

Do not use a solid water stream as it may scatter and spread fire.

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

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

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. 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

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. 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 MSDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13 of the MSDS.

Environmental precautions

Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

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### 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Will ignite if exposed to intensive heat or open air. 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 breathe gas. Do not get this material in contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Use only in well-ventilated areas. Use personal protective equipment as required. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. The pressure in sealed containers can increase under the influence of heat. 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 in a well-ventilated place. Keep container dry. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the MSDS). Level 1 Aerosol (NFPA 30B)

## 8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Value:	3		
Components	Type	Value	
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Type	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Methanol (CAS 67-56-1)	STEL	325 mg/m3	
		250 ppm	
	TWA	260 mg/m3	
		200 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
ogical limit values			
ACGIH Biological Exposure Indice	es .		
Components Value	Determin	ant Specimen Sampling Time	
Methanol (CAS 67-56-1) 15 mg/l	Methanol	Urine *	

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

Exposure guidelines

US - California OELs: Skin designation

Methanol (CAS 67-56-1)

US - Minnesota Haz Subs: Skin designation applies

Methanol (CAS 67-56-1)

US - Tennesse OELs: Skin designation

Methanol (CAS 67-56-1)

US ACGIH Threshold Limit Values: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

Skin designation applies.

Can be absorbed through the skin.

Can be absorbed through the skin.

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US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

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). Wear tight-fitting goggles or face shield.

Hand protection Wear protective gloves.

Other Wear chemical protective equipment that is specifically recommended by the manufacturer.

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 eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Avoid contact with skin. 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.

## Physical and chemical properties

**Appearance** 

Color Not available. Form Aerosol. Physical state Gas.

Boiling point 197.6 °F (92 °C) estimated

-156.00 °F (-104.44 °C) Propellant estimated Flash point

Melting point/freezing point Not available. Odor Not available. Not available. Hq Not available. Solubility(ies) Not available. Vapor density

46.02 psig @70F estimated Vapor pressure

Viscosity Not available.

Other information

0.968 estimated Specific gravity

#### Stability and reactivity

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

Chemical stability Risk of ignition.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Exposure to air. Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

Expected to be a low ingestion hazard. Ingestion

Prolonged inhalation may be harmful. May cause damage to organs by inhalation. Inhalation

Skin contact Not available.

Eye contact Direct contact with eyes may cause temporary irritation. Direct contact with eyes may cause temporary irritation. Symptoms related to the

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Product **Species** Test Results Foam Clean WB Economy Glass Cleaner (CAS Mixture) Acute Dermal LD50 Rabbit 48068.1484 mg/kg, estimated 5327.083 ml/kg, estimated Rat 22114 mg/kg Inhalation LC50 Cat 2996.842 mg/l, 4.5 Hours, estimated 1532.6316 mg/l, 6 Hours, estimated Mouse 92105.2656 mg/l, 7 Hours, estimated 19710.1445 mg/l, 2 Hours, estimated 3427.9429 mg/l, 4 Hours, estimated Rat 93086.9063 mg/l, 15 Minutes, estimated 3070.1755 mg/l, 6 Hours, estimated 204 mg/l/4h Oral LD50 Dog 483.4279 g/kg, estimated Guinea pig 106.2943 g/kg, estimated Monkey 70.1754 g/kg, estimated Mouse 157.8947 g/kg, estimated Rabbit 38.8568 g/kg, estimated Rat 53337.7383 mg/kg, estimated Other LD50 Monkey 105.2632 g/kg, estimated Mouse 31925.1777 mg/kg, estimated Rabbit 23391.4063 mg/kg, estimated Rat 22886.2754 mg/kg, estimated Components **Species** Test Results Butane (CAS 106-97-8) Acute Inhalation LC50 680 mg/l, 2 Hours Mouse Rat 658 mg/l, 4 Hours Ethyl Alcohol (CAS 64-17-5) Acute Inhalation LC50 39 mg/l, 4 Hours Mouse Rat 20000 mg/l, 10 Hours Oral LD50 Dog 5.5 g/kg Guinea pig 5.6 g/kg Mouse 3450 mg/kg Rat 6.2 g/kg Other LD50 Mouse 933 mg/kg Rat 1440 mg/kg Methanol (CAS 67-56-1) Acute Dermal LD50 Rabbit 15800 mg/kg

Components	Species	Test Results
Inhalation		
LC50	Cat	85.41 mg/l, 4.5 Hours
		43.68 mg/l, 6 Hours
	Rat	64000 mg/l, 4 Hours
		87.5 mg/l, 6 Hours
Oral		
LD50	Dog	8000 mg/kg
	Monkey	2 g/kg
	Mouse	7300 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg
Other		
LD50	Guinea pig	3556 mg/kg
	Hamster	8555 mg/kg
	Monkey	3 g/kg
	Mouse	4100 mg/kg
	Rabbit	1826 mg/kg
	Rat	2131 mg/kg
Propane (CAS 74-98-6)		
Acute		
Inhalation		
LC50 Rat		> 1442.847 mg/l, 15 Minutes
		658 mg/l/4h

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

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization Not available.

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.

Risk of cancer cannot be excluded with prolonged exposure. Carcinogenicity

Reproductive toxicity Possible reproductive hazard. May damage fertility or the unborn child.

Specific target organ toxicity -

single exposure

Causes damage to organs.

Specific target organ toxicity -

repeated exposure

Not classified.

Not likely, due to the form of the product. Aspiration hazard

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Further information Danger of very serious irreversible effects.

# 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.

Product		Species	Test Results	
Foam Clean WB Ecor	nomy Glass Cleane	r (CAS Mixture)		
Algae	IC50	Algae	5714 mg/L, 72 Hours	
Fish	LC50	Fish	57589 mg/L, 96 Hours	
Components		Species	Test Results	
Ethyl Alcohol (CAS 64	<b>1</b> -17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours	

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Components Species Test Results

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Methanol (CAS 67-56-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

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

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

 Ethyl Alcohol
 -0.31

 Methanol
 -0.77

 Propane
 2.36

 Butane
 2.89

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

Disposal instructions Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush.

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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.

US RCRA Hazardous Waste U List: Reference

Methanol (CAS 67-56-1) U154

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

emptied.

#### 14. Transport information

DOT

UN number UN1950 UN proper shipping name Aerosols Transport hazard class(es) 2.1

Subsidiary class(es) Not available. Packing group Not available.

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

Labels required None
Special provisions 153, N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es) 2.1 Subsidiary class(es) -

Not available.

Packaging group Not Environmental hazards No Labels required 2.1 ERG Code 10L

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

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

Packaging Exceptions LTD QTY

**IMDG** 

UN number UN1950 UN proper shipping name AEROSOLS

Transport hazard class(es) 2 Subsidiary class(es) -

Packaging group

Not available.

Environmental hazards

Marine pollutant No

Labels required Not available. EmS F-D, S-U

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 applicable.

the IBC Code

DOT



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.

All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Methanol (CAS 67-56-1) LISTED US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous No

chemical

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Other federal regulations

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

Methanol (CAS 67-56-1)

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 Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Food and Drug

Not regulated.

Administration (FDA)

US state regulations WARNING: This product contains a chemical known to the State of California to cause birth

defects or other reproductive harm.

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

Butane (CAS 106-97-8) 500 lbs
Methanol (CAS 67-56-1) 500 lbs
Propane (CAS 74-98-6) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) Methanol (CAS 67-56-1) Propane (CAS 74-98-6)

US. California Proposition 65

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

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical	No

Substances (EINECS)

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 New Zealand Inventory No
Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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

\*A "Yes" indicates this product complies 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, including date of preparation or last revision

Issue date 02-05-2014

Version # 01

Further information Not available.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

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

Revision Information Product and Company Identification: Product Review

Composition / Information on Ingredients: Ingredients

Regulatory Information: United States

HazReg Data: North America

GHS: Classification

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Yes