

# Safety Data Sheet

## BROTHERS CITRA SHINE ALL-PURPOSE CLEANER

Version number: GHS 2.0

Revision: 2021-07-07

### SECTION 1: Identification

#### Product identifier

<b>Product Name</b>	<b>BROTHERS CITRA SHINE ALL-PURPOSE CLEANER</b>
<b>Authorization number</b>	BTM-1225-67
<b>Recommended Use</b>	All-purpose cleaner
<b>Uses advised against</b>	Restrictions on use: Do not use in any fashion not specified on the product label.

#### **Manufacturer/Supplier**

BROTHERS MANUFACTURING  
10900 60TH STREET N STILLWATER, MN 55082

Telephone: 651-646-1696

<b>Emergency telephone number</b>	800-424-9300
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<b>National poison center</b>	800-222-1222
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### SECTION 2: Hazard(s) identification

#### **Classification acc. to GHS**

Serious eye damage/eye irritation.

H319.

Skin sensitization.

H317.

Flammable aerosol.

H222.

#### **Label elements**

<b>Signal word</b>	Danger
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#### **Pictograms**



#### **Hazard statements**

Extremely flammable aerosol.

May cause an allergic skin reaction.

Causes serious eye irritation.

#### **Precautionary statements**

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.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear eye protection/face protection.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Dispose of contents/container to industrial combustion plant.

<b>Hazardous ingredients for labelling</b>	Limonene
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**Other hazards**

Hazards not otherwise classified

Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

**SECTION 3: Composition/information on ingredients**

Name of substance	Identifier	Wt%
Limonene	CAS No 5989-27-5	5 - < 10
Propane	CAS No 74-98-6	5 - < 10
Butane	CAS No 106-97-8	1 - < 5
Glycerin	CAS No 56-81-5	1 - < 5

For full text of abbreviations: see SECTION 16.

**SECTION 4: First-aid measures****Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

**Indication of any immediate medical attention and special treatment needed**

none

**SECTION 5: Fire-fighting measures****Suitable extinguishing media**

Water spray, BC-powder

**Unsuitable extinguishing media**

Water jet

**Special hazards arising from the substance or mixture****Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

### Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

## SECTION 7: Handling and storage

### Precautions for safe handling

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

### Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

See section 16 for a general overview.

**SECTION 8: Exposure controls/personal protection****Exposure controls****Appropriate engineering controls**

General ventilation.

**Individual protection measures (personal protective equipment)****Eye/face protection**

Wear eye/face protection.

**Skin protection**

- Hand protection

Wear protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection**

During spraying wear suitable respiratory equipment.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties**

<b>Physical state</b>	Aerosol (spray aerosol)
<b>Color</b>	Not determined
<b>Odor</b>	Characteristic
<b>pH (value)</b>	not determined
<b>Melting point/freezing point</b>	Not determined
<b>Flash point</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Flammable aerosol in accordance with GHS criteria
<b>Vapor pressure</b>	3,972 – 5,171 hPa at 20 °C
<b>Density</b>	Not determined
<b>Vapor density</b>	This information is not available
<b>Relative density</b>	Information on this property is not available

## SECTION 10: Stability and reactivity

### Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

### Chemical stability

See below "Conditions to avoid".

### Possibility of hazardous reactions

No known hazardous reactions.

### Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

### Hints to prevent fire or explosion

Protect from sunlight.

### Incompatible materials

Oxidizers

### Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### Information on toxicological effects

Test data are not available for the complete mixture.

### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

Shall not be classified as acutely toxic.

#### - Acute toxicity estimate (ATE)

Oral 162 mg/kg

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Glycerin	56-81-5	oral	27 mg/kg

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
Limonene	5989-27-5	3	

Legend

3 Not classifiable as to carcinogenicity in humans

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information****Toxicity**

Toxic to aquatic life with long lasting effects.

## Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Glycerin	56-81-5	LC50	54,000 mg/l	fish	96 h

**Persistence and degradability**

Data are not available.

**Bioaccumulative potential**

Data are not available.

**Mobility in soil**

Data are not available.

**Results of PBT and vPvB assessment**

Data are not available.

**Endocrine disrupting properties**

None of the ingredients are listed.

**Other adverse effects**

Data are not available.

**SECTION 13: Disposal considerations****Waste treatment methods****Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Waste treatment of containers/packages**

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

**UN number** 1950

<b>UN proper shipping name</b>	Aerosols, Flammable
<b>Transport hazard class(es)</b>	2.1
<b>Packing group</b>	II
<b>Environmental hazards</b>	No

Carriage prohibited.

not assigned

not assigned

**SECTION 15: Regulatory information****National regulations (United States)**

**Toxic Substance Control Act (TSCA)** all ingredients are listed

**Superfund Amendment and Reauthorization Act (SARA TITLE III )**

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)**

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

**Clean Air Act**

Name of substance	CAS No	Type of registration	Basis for listing	Threshold quantity (lbs)
Propane	74-98-6	Flammable substance	f	10000
Butane	106-97-8	Flammable substance	f	10000

**Legend**

f Flammable gas.

**Right to Know Hazardous Substance List****- Cleaning Product Right to Know Act Substance List (CA-RTK)**

Name of substance	CAS No	Functionality	Authoritative Lists
Limonene	5989-27-5		EU Fragrance Allergens
Butane	106-97-8		EC Annex VI CMRs - Cat. 1A EC Annex VI CMRs - Cat. 1B

**- Toxic or Hazardous Substance List (MA-TURA)**

none of the ingredients are listed

**- Hazardous Substances List (MN-ERTK)**

Name of substance	CAS No	References	Remarks
Glycerin	56-81-5	A	mist
Propane	74-98-6	A, O	
Propane		N	
Propane		A	gases
Butane		N	

**Legend**

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- gases Refers to displacement of air asphyxiation hazard.
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

**- Hazardous Substance List (NJ-RTK)**

Name of substance	CAS No	Remarks	Classifications
Limonene	138-86-3		F2
Glycerin	56-81-5		
Propane	74-98-6		F4
Butane	106-97-8		F4

**Legend**

- F2 Flammable - Second Degree
- F4 Flammable - Fourth Degree

**- Hazardous Substance List (Chapter 323) (PA-RTK)**

Name acc. to inventory	CAS No	Classification
1,2,3-PROPANETRIOL	56-81-5	
PROPANE	74-98-6	
BUTANE	106-97-8	



## - Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
Glycerin	56-81-5	T, F
Propane	74-98-6	T
Butane	106-97-8	T, F

## Legend

F Flammability (NFPA®)  
T Toxicity (ACGIH®)

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

### NPCA-HMIS® III

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	4	material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

### NFPA® 704

Category	Degree of hazard	Description
Flammability	4	material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
US	TSCA	all ingredients are listed

## Legend

REACH Reg. REACH registered substances  
TSCA Toxic Substance Control Act

**SECTION 16: Other information, including date of preparation or last revision****Key literature references and sources for data**

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

Code	Text
H222	Extremely flammable aerosol.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. Disclaimer: No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material. .