

SAFETY DATA SHEET

Issuing Date No data available Revision Date 22-Nov-2016 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name SOS™ Clorox Commercial Solutions® Manual Pot and Pan Detergent

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Liquid dishwashing soap
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier NameThe Clorox CompanySupplier Address1221 Broadway

Oakland CA 94612 US

Supplier Phone Number Phone: 1-510-271-7000

Emergency telephone number

Emergency Telephone Number For Medical Emergencies call: 1800-446-1014 Transportation Emergencies, call Chemtrec:

1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation Category 2A

GHS Label elements, including precautionary statements

Emergency Overview

Hazard Statements

Causes serious eye irritation



Appearance Clear Blue

Physical state Viscous liquid

Odor Lemon

Precautionary Statements - Prevention

None

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Precautionary Statements - Response

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

None

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

9 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

Toxic to aquatic life

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms None.

Chemical Name	CAS-No	Percent	Trade Secret
Sodium lauryl sulfate	151-21-3	7-15	*
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	3-7	*
Glycerin	56-81-5	1-5	*
Cocamine oxide	61788-90-7	1-5	*
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	0.5 - 2	*
Ethanol	64-17-5	0.5 - 2	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

<u>General Advice</u> Show this safety data sheet to the doctor in attendance.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a

physician.

Inhalation Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. Call a

physician or Poison Control Center immediately.

Ingestion Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Call a

physician or Poison Control Center immediately. Use personal protective equipment as required.

Self-protection of the first aider

Use personal protective equipment as

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and

Irritating.

Effects

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Prevent further leakage or spillage if safe to do so.

Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place.

Incompatible products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium lauryl sulfate 151-21-3	None	None	None
D-Glucopyranose, oligomeric, decyl octyl glycosides 68515-73-1	None	None	None
Glycerin 56-81-5	TWA: 10 mg/m³ mist	TWA: 15 mg/m³ mist, total particulateTWA: 5 mg/m³ mist, respirable fraction	-
Cocamine oxide 61788-90-7	None	None	None

D-Glucopyranose, oligomeric, C10-16-alkyl	None	None	None
glycosides			
110615-47-9			
Ethanol	STEL: 1000 ppm	TWA: 1000 ppmTWA: 1900	IDLH: 3300 ppm 10% LELTWA:
64-17-5		mg/m³	1000 ppmTWA: 1900 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields. None required for

consumer use.

Skin and body protection No special protective equipment required.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or

clothing. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Viscous liquid Appearance Clear Blue

Appearance Clear Blue Odor Lemon

ColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

7.5 - 8.5 None known pН Melting / freezing point No data available None known Boiling point / boiling range No data available None known Flash Point No data available None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
No data available
No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Specific Gravity~1.0None knownWater SolubilitySoluble in waterNone knownSolubility in other solventsNo data availableNone knownPartition coefficient: n-octanol/waterNo data availableNone knownAutoignition temperatureNo data availableNone known

Decomposition temperature

No data available

None known

Dynamic viscosity ~1200 cP
Explosive properties No data available
Oxidizing properties No data available

Other Information

Softening Point No data available
Particle Size No data available
Particle Size Distribution No data available

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known.

Incompatible materials

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract.

Eye contact May cause slight irritation.

Skin contact Prolonged contact may cause redness and irritation.

Ingestion Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium lauryl sulfate	1.29 g/kg (Rat)	580 mg/kg (Rabbit)	> 3.9 g/m³ (Rat, 1 h)
151-21-3			
Glycerin	-	> 10 g/kg (Rabbit)	>570 mg/m³ (Rat, 1 h)
56-81-5			
Ethanol	_	_	124.7 mg/L (Rat) 4 h
64-17-5			

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available. **Mutagenic Effects** No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as

alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X
64-17-5				

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
No information available.
No information available.

STOT - repeated exposure No information available.

Chronic Toxicity Contains a known or suspected carcinogen. Ethanol has been shown to be carcinogenic in

long-term studies only when consumed as alcoholic beverage. Contains a known or

suspected reproductive toxin. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. May cause adverse effects on the bone marrow and

blood-forming system. May cause adverse liver effects. Repeated abuse can have long-term health effects.

Target Organ Effects Blood. Central nervous system (CNS). Eyes. Liver. Reproductive system. Respiratory

system.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
7.3 mg/kg
ATEmix (dermal)
10.9 mg/kg
ATEmix (inhalation-dust/mist)
50 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms. Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium lauryl sulfate	96h EC50: 30 - 100 mg/L	96h LC50: 8 - 12.5 mg/L	EC50 = 0.46 mg/L 30 min	48h EC50: = 1.8 mg/L
151-21-3	(Desmodesmus	(Pimephales promelas) 96h	EC50 = 0.72 mg/L 15 min	3.
	subspicatus) 96h EC50: =	LC50: 22.1 - 22.8 mg/L	EC50 = 1.19 mg/L 5 min	
	117 mg/L	(Pimephales promelas) 96h	9	
	(Pseudokirchneriella	LC50: 4.3 - 8.5 mg/L		
	subcapitata) 96h EC50:	(Oncorhynchus mykiss) 96h		
	3.59 - 15.6 mg/L	LC50: 15 - 18.9 mg/L		
	(Pseudokirchneriella	(Pimephales promelas) 96h		
	subcapitata) 72h EC50: = 53	LC50: = 4.2 mg/L		
	mg/L (Desmodesmus	(Oncorhynchus mykiss) 96h		
	subspicatus)	LC50: = 7.97 mg/L		
		(Brachydanio rerio) 96h		
		LC50: = 4.62 mg/L		
		(Oncorhynchus mykiss) 96h		
		LC50: 9.9 - 20.1 mg/L		
		(Brachydanio rerio) 96h		
		LC50: 4.06 - 5.75 mg/L		
		(Lepomis macrochirus) 96h		
		LC50: 4.2 - 4.8 mg/L		
		(Lepomis macrochirus) 96h		
		LC50: 5.8 - 7.5 mg/L		
		(Pimephales promelas) 96h		
		LC50: = 4.5 mg/L (Lepomis		
		macrochirus) 96h LC50:		
		10.2 - 22.5 mg/L		
		(Pimephales promelas) 96h		
		LC50: 6.2 - 9.6 mg/L		
		(Pimephales promelas) 96h		
		LC50: 13.5 - 18.3 mg/L		
		(Poecilia reticulata) 96h		
		LC50: 10.8 - 16.6 mg/L		
		(Poecilia reticulata) 96h		
		LC50: = 1.31 mg/L (Cyprinus		
		carpio)		
Glycerin		LC50: 51 - 57 mL/L (96 h		EC50: > 500 mg/L (24 h
56-81-5		static) Oncorhynchus mykiss		Daphnia magna

Ethanol	LC50: 12.0 - 16.0 mL/L (96 h	EC50 = 34634 mg/L 30	LC50: 9268 - 14221 mg/L
64-17-5	static) Oncorhynchus	minEC50 = 35470 mg/L 5	(48 h) Daphnia
	mykissLC50: 13400 - 15100	min	magnaEC50: 10800 mg/L
	mg/L (96 h flow-through)		(24 h) Daphnia
	Pimephales promelasLC50:		magnaEC50: 2 mg/L (48 h
	> 100 mg/L (96 h static)		Static) Daphnia magna
	Pimephales promelas		

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Chemical Name	Log Pow
Sodium lauryl sulfate 151-21-3	1.6
Glycerin 56-81-5	-1.76
Ethanol 64-17-5	-0.32

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods Contaminated Packaging Dispose of in accordance with federal, state and local regulations.

Do not reuse empty containers. Dispose of in accordance with federal, state and local

regulations.

14. TRANSPORT INFORMATION			
DOT	NOT REGULATED		
<u>TDG</u>	NOT REGULATED		
<u>ICAO</u>	NOT REGULATED		
<u>IATA</u>	NOT REGULATED		
IMDG	NOT REGULATED		

15. REGULATORY INFORMATION

International Inventories

TSCA All components are listed on the TSCA Inventory
DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

No
Sudden release of pressure hazard

No
Reactive Hazard

No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65
Ethanol - 64-17-5	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Glycerin 56-81-5	Х	Х	Х	Х	
Ethanol 64-17-5	Х	Х	Х		

International Regulations

National occupational exposure limits

Mexico - Occupational Exposure Limits - Carcinogens

Canada WHMIS Hazard Class D2B - Toxic materials



16. OTHER INFORMATION

NFPA Health Hazards 2 Flammability 0 Instability 0 Physical and Chemical Hazards -

HMIS Health Hazards 2 Flammability 0 Physical Hazard 0 Personal Protection

Α

Prepared By Product Stewardship

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1-800-572-6501 22-Nov-2016

Revision Note No information available

Disclaimer

Revision Date

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

End of Safety Data Sheet