



# SAFETY DATA SHEET

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Revision Number 1

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

### Product identifier

**Product Name** Formula 409® Carpet Cleaner (aerosol)

### Other means of identification

**Synonyms** None.

**Document Number** US001215

### Recommended use of the chemical and restrictions on use

**Recommended Use** Aerosol carpet cleaner

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### **Supplier Address**

The Clorox Company  
1221 Broadway  
Oakland, CA 94612

Phone: 1-510-271-7000

### Emergency telephone number

#### **Emergency Phone Numbers**

For Medical Emergencies call: 1-800-446-1014

For Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION


### Classification

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

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Gases under pressure	Compressed gas

### GHS Label elements, including precautionary statements

#### Emergency Overview

<b>Signal word</b>	<b>Danger</b>	
<b>Hazard statements</b>	May cause genetic effects May cause cancer May damage fertility or the unborn child Contains gas under pressure; may explode if heated	
		
<b>Appearance</b>	Clear, colorless	<b>Physical State</b> Thin liquid
		<b>Odor</b> Lavender, floral, citrus

### Precautionary Statements - Prevention

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Wear eye protection such as safety glasses.

### Precautionary Statements - Response

If exposed or concerned: Get medical attention.  
 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

Store locked up.

### Precautionary Statements - Disposal

Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

### Hazards not otherwise classified (HNOC)

Not applicable

### Unknown Toxicity

0.7% of the mixture consists of ingredient(s) of unknown toxicity

### Other information

Harmful to aquatic life.

### Interactions with Other Chemicals

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Isopropyl alcohol	67-63-0	1 - 5	*
Isobutane	75-28-5	1 - 5	*
Sodium lauryl sulfate	151-21-3	0.5 - 2	*
Sodium tetraborate pentahydrate	12179-04-3	0.1 - 1	*
Sodium nitrite	7632-00-0	0.1 - 1	*

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

### 4. FIRST AID MEASURES

#### First aid measures

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin Contact</b>	Wash skin with soap and water. If irritation persists, call a doctor.
<b>Inhalation</b>	Move to fresh air. If breathing is affected, call a doctor.
<b>Ingestion</b>	Drink a glassful of water. Call a doctor or poison control center.

#### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms/Effects** May cause slight eye irritation.

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

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, or water spray.

#### Unsuitable Extinguishing Media

Do not extinguish a leaking gas fire unless leak can be stopped.

#### Specific Hazards Arising from the Chemical

Containers may rupture at temperatures greater than 49°C.

NFPA Aerosol Classification: Level 1

CPSC Aerosol Classification: Not flammable.

#### Explosion Data

**Sensitivity to Mechanical Impact** None

**Sensitivity to Static Discharge** None

#### Protective Equipment and Precautions for Firefighters

Containers may rupture at temperatures greater than 49°C. Cool exposed containers to avoid potential bursting or venting. Use equipment or shielding to protect personnel from bursting containers. 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, skin, and clothing.

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

### Environmental precautions

**Environmental Precautions** Prevent entry into waterways, sewers, basements, and confined areas.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches, and waterways.

**Methods for Cleaning Up** Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors. Contents under pressure. Do not puncture or incinerate containers. Do not eat, drink, or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage** Store in accordance with NFPA 30B for Level 1 aerosols. Do not store at temperatures above 49°C. Keep containers in a dry, cool, and well-ventilated place. Protect from sunlight.

**Incompatible Products** None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Isobutane 75-28-5	STEL: 1000 ppm	None	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>
Sodium lauryl sulfate 151-21-3	None	None	None
Sodium tetraborate pentahydrate 12179-04-3	STEL - 6 mg/m <sup>3</sup> (inhalable fraction) <sup>a</sup> STEL - 2 mg/m <sup>3</sup> (inhalable fraction) <sup>a</sup> <sup>a</sup> Listed under borate compounds, inorganic	None	TWA - 1 mg/m <sup>3</sup>
Sodium nitrite 7632-00-0	None	None	None

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**                      Wear safety glasses. None required for consumer use.

**Skin and Body Protection**                Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.

**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**                         Do not eat, drink, or smoke when using this product. Wash hands with soap and water after use.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and Chemical Properties**

<b>Physical State</b>	Thin liquid		
<b>Appearance</b>	Clear	<b>Odor</b>	Lavender, floral, citrus
<b>Color</b>	Colorless	<b>Odor Threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ Method</u></b>
<b>pH</b>	9 - 10 (liquid)	None known
<b>Melting/freezing point</b>	No data available	None known
<b>Boiling Point/Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Flame extension</b>	None	None known
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No data available	None known
<b>Lower flammability limit</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	~1.03 (liquid)	None known
<b>Water Solubility</b>	Soluble in water.	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

**Other Information**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

None known.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Do not store at temperatures above 49°C.

### Incompatible materials

None known.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

##### Inhalation

Exposure to vapor or mist may irritate respiratory tract.

##### Eye Contact

May cause slight eye irritation.

##### Skin Contact

Prolonged contact may cause slight irritation.

##### Ingestion

Ingestion may cause slight irritation to mucous membranes and gastrointestinal irritation, nausea, vomiting, and diarrhea.

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol 67-63-0	1.87 g/kg (Rat)	4.06 g/kg (Rat)	72.6 g/m <sup>3</sup> (Rat) 4 h
Isobutane 75-28-5	-	-	658 mg/L (Rat) 4 h
Sodium tetraborate pentahydrate 12179-04-3	2.4 g/kg (Rat)	>2 g/kg (Rabbit)	-
Sodium nitrite 7632-00-0	85 mg/kg (Rat)	-	5.5 mg/L (Rat) 4 h

### 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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 3		
Sodium nitrite 7632-00-0		Group 2A		X

**ACGIH (American Conference of Governmental Industrial Hygienists)**

**IARC (International Agency for Research on Cancer)**

Group 2A - Probably Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP (National Toxicology Program)**

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

X - Present

**Reproductive Toxicity**

Contains a known or suspected reproductive toxin (sodium tetraborate pentahydrate).

**STOT - single exposure**

No information available.

**STOT - repeated exposure  
Chronic Toxicity**

No information available.

Contains a known or suspected mutagen. Contains a known or suspected carcinogen.

Sodium nitrite produced stomach tumors in female mice when fed exaggerated doses.

Contains a known or suspected reproductive toxin. Possible risk of irreversible effects.

**Target Organ Effects**

Respiratory system, eyes, skin, reproductive system, gastrointestinal tract, central nervous system, blood, heart, liver, spleen, kidney, stomach, systemic toxicity cardiovascular system. May affect the genetic material in germ cells (sperm and eggs).

**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)**

54 g/kg

**ATEmix (dermal)**

35.4 g/kg

**ATEmix (inhalation-gas)**

9,886,000

**ATEmix (inhalation-vapor)**

1850

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

Chemical Name	Log Pow
Sodium nitrite 7632-00-0	-3.7

**Other Adverse Effects**

No information available.

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### 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Dispose of in accordance with all applicable federal, state, and local regulations.

**Contaminated Packaging**

Dispose of in accordance with all applicable federal, state, and local regulations.

### 14. TRANSPORT INFORMATION

**DOT** - UN1950, Aerosols, 2.2, Limited Quantity

**IMDG** - UN1950, Aerosols, 2.2, Limited Quantity

**IATA** - UN1950, Aerosols, 2.2, Limited Quantity



## 15. REGULATORY INFORMATION

### Chemical Inventories

**TSCA** All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

**DSL/NDSL** All components are 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

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical that is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 Threshold Values %
Sodium nitrite 7632-00-0	7632-00-0	0.1 - 1	1.0

#### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	Yes
<b>Reactive Hazard</b>	No

#### **Clean Water Act**

This product contains the following substance that is regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium nitrite 7632-00-0	100 lb.			X

#### **CERCLA**

This material, as supplied, contain the following substance regulated as a hazardous substance 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.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium nitrite 7632-00-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Isopropyl alcohol 67-63-0	X	X	X		
Isobutane 75-28-5	X	X	X		
Propane 74-98-6	X	X	X		
Sodium nitrite 7632-00-0	X	X	X	X	

<b>16. OTHER INFORMATION</b>
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**Prepared By** Product Stewardship  
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**Revision Note** Transport

**Reference** 1050720/259408.001

**General Disclaimer**

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**