SAFETY DATA SHEET

Issuing Date  February 27, 2019  Revision Date  12-Dec-20  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).

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germ cell mutagenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1A</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Gases under pressure</td>
<td>Compressed gas</td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements

Emergency Overview

**Signal word**

**Danger**

**Hazard statements**
- May cause genetic effects
- May cause cancer
- May damage fertility or the unborn child
- Contains gas under pressure; may explode if heated

**Appearance**  Clear, colorless  **Physical State**  Thin liquid  **Odor**  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

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

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

4. FIRST AID MEASURES

First aid measures

General Advice
Show this safety data sheet to the doctor in attendance.

Eye Contact
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.

Skin Contact
Wash skin with soap and water. If irritation persists, call a doctor.

Inhalation
Move to fresh air. If breathing is affected, call a doctor.

Ingestion
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 (CO₂), 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>STEL: 400 ppm</td>
<td>TWA: 400 ppm</td>
<td>IDLH: 2000 ppm 10% LEL</td>
</tr>
<tr>
<td>67-63-0</td>
<td>TWA: 200 ppm</td>
<td>TWA: 980 mg/m³</td>
<td>TWA: 400 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 1225 mg/m³</td>
</tr>
<tr>
<td>Isobutane</td>
<td>STEL: 1000 ppm</td>
<td>None</td>
<td>TWA: 800 ppm</td>
</tr>
<tr>
<td>75-28-5</td>
<td></td>
<td></td>
<td>TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>Sodium lauryl sulfate</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>151-21-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium tetraborate pentahydrate</td>
<td>STEL - 6 mg/m³</td>
<td>None</td>
<td>TWA - 1 mg/m³</td>
</tr>
<tr>
<td>12179-04-3</td>
<td>(inhalable fraction)°</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL - 2 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(inhalable fraction)°</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Listed under borate compounds, inorganic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium nitrite</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>7632-00-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Thin liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
<td>Odor</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
<td>Odor Threshold</td>
</tr>
<tr>
<td>pH</td>
<td>9 - 10 (liquid)</td>
<td>None known</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flame extension</td>
<td>None</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>~1.03 (liquid)</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in water.</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Other Information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Softening Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size Distribution</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
<td>1.87 g/kg (Rat)</td>
<td>4.06 g/kg (Rat)</td>
<td>72.6 g/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Isobutane 75-28-5</td>
<td>-</td>
<td>-</td>
<td>658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Sodium tetraborate pentahydrate 12179-04-3</td>
<td>2.4 g/kg (Rat)</td>
<td>&gt;2 g/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Sodium nitrite 7632-00-0</td>
<td>85 mg/kg (Rat)</td>
<td>-</td>
<td>5.5 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
<td>Group 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium nitrite 7632-00-0</td>
<td>Group 2A</td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

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

No information available.

Chronic Toxicity

Contains a known or suspected mutagen. Contains a known or suspected carcinogen. Sodium nitrite produced stomach tumors in female mice when fed exaggerated doses.

Target Organ Effects

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite 7632-00-0</td>
<td>-3.7</td>
</tr>
</tbody>
</table>

Other Adverse Effects

No information available.
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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite</td>
<td>7632-00-0</td>
<td>0.1 - 1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazard Categories**

- **Acute Health Hazard**: No
- **Chronic Health Hazard**: Yes
- **Fire Hazard**: No
- **Sudden Release of Pressure Hazard**: Yes
- **Reactive Hazard**: 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).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite</td>
<td>100 lb.</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

## 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite</td>
<td>100 lb</td>
<td></td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RQ 45.4 kg final RQ</td>
</tr>
</tbody>
</table>
U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67-63-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>75-28-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>74-98-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium nitrite</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>7632-00-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Prepared By          Product Stewardship
                     23 British American Blvd.
                     Latham, NY 12110
                     1-800-572-6501

Preparation/Revision Date February 27, 2019

Revision Date 12-Dec-20

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