

Physical hazards: Flammable aerosols - Category 2
Gases under pressure, Compressed gas
Health hazards: Skin corrosion/irritation - Category 1B
Serious eye damage/eye irritation - Category 1
Environmental hazards: Not classified

Safety Data Sheet (SDS)

The content and format of this SDS is accordant with 29 CFR 1910.1200 (OSHA standard)

1. Identification

Product details:

Product name: 409 FUME FREE OVEN CLEANER

Recommended use of the chemical and restrictions on use: Grill cleaner. Restrictions on use: Do NOT use it in an application which may contaminate food or do harm to human health.

Manufacturer/Supplier: BLUESEA AEROSOL & DAILY CARE CO., LTD

Address: DONGZHUANG DEVELOPMENT DISTRICT, XIONGZHOU TOWN, XIONG COUNTY, HEBEI PROVINCE, CHINA

Tel.: +0086-312-5791555

Fax: +0086-312-5720000

Email: peter@bsaerosol.com

Emergency phone number: +0086-312-5795000

2. Hazards identification

GHS classification:

Signal Word: Danger

Pictograms:



Hazard Statements:

H223: Flammable aerosol.

H280: Contains gas under pressure; may explode if heated.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

Precautionary Statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Pressurized container: Do not pierce or burn, even after use.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Precautionary Statements:

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor/physician.

P321: Specific treatment (Please see the specific measures for accident that included in the label, or go to hospital for treatment.)

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage precautionary statements:

P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P410 + P403: Protect from sunlight. Store in a well-ventilated place.

P405: Store locked up.

Disposal precautionary statements:

P501: Dispose of contents/container according to relevant local and national regulations (It is recommended to use incineration method to dispose of waste).

3. Composition/information on ingredients

Product description: substance (); preparation/mixture (√)

Ingredient (s)	CAS No.	EC No.	%by weight	Function
Water	7732-18-5	231-791-2	89.17	Solvent
Butane	106-97-8	203-448-7	3.2	Propellant
Diethylene Glycol Monobutyl Ether	112-34-5	203-961-6	1.7	Solvent
Propane	74-98-6	200-827-9	1.7	Propellant
Potassium Carbonate	584-08-7	209-529-3	1	pH regulator
Ethanolamine	141-43-5	205-483-3	1	Surfactant
Sodium Lauroyl Sarcosinate	137-16-6	205-281-5	1	Surfactant
Isobutane	75-28-5	200-857-2	0.8	Propellant
Sodium benzoate	532-32-1	208-534-8	0.26	Anticorrosive agent
Sodium nitrite	7632-00-0	231-555-9	0.09	Anticorrosive agent
Fragrances			0.05	Aromatic
Triethanolamine	102-71-6	203-049-8	0.03	Surfactant

4. First aid measures

Persons using this product should consult a physician or other medical professional if an accident involving this product results in injury. Specific first-aid measures are as follows:

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eyes Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Do not induce vomiting without professional instruction. Get medical attention if discomfort occurs.

Acute effect and delayed effect: Acute effect: Causes severe skin burns and eye damage. Delayed effect: Not found.

Personal protective equipment: Wear protective gloves/protective clothing/eye protection/face protection when necessary.

Indication of immediate medical attention and treatment needed, if necessary: Treat according to symptoms and exposure dose.

5. Fire-fighting measures

Extinguishing Media: Use water fog, dry chemicals, carbon dioxide, foam, dry sand for extinction.

Unsuitable Extinguishing Media: Discharging cylinder shape water from fire hose may lead to spread fire to the surroundings.

Special hazards arising from the chemical: Flammable aerosol. Pressurized container: may burst if heated. If a fire occurs, harmful fumes are released, such as carbon oxides.

Fire Fighting Method:

For initial fire, use dry powder, carbon dioxide, etc.

For large fire, it is effective to use fire foam, etc. to shut off air supply.

Deny unnecessary entry to the place around the fire.

Remove containers from fire area if it can be done without risk.

Cool surrounding facilities, etc. with water spray.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

Special actions for fire-fighters: Firefighters must wear self-contained breathing apparatus and full protective equipment.

Check whether the protective equipment is in good condition before use.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Keep cleaning run-offs out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

Methods and material for containment and cleaning up:

Small Spill:

Mop up or absorb with an inert dry material (e.g. sand, dry lime) and place in an appropriately labeled waste disposal container.

Large Spill:

Isolate contaminated area and set up a warning board. The persons handling emergency are recommended wearing protective clothing. Do NOT touch spilled material.

Build up dike or dig pit for collection. Containers should be clearly marked for recycling or disposed as waste.

7. Handling and storage

Precautions for safe handling:

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 dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities: Store it in a well-ventilated, cool and dry store room. Keep away from heat/sparks/open flames/hot surfaces. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Incompatible substances or mixtures: Strong oxidizer, strong acid and alkali.

Packing material: No relevant information.

8. Exposure controls/personal protection

Occupational Exposure Limits:

Ingredients	OSHA PEL-TWA	ACGIH TLV-TWA
Propane (CAS: 74-98-6)	1000 ppm	1000 ppm

Engineering Controls:

Use this product only in closed systems fully or with local exhaust ventilation.
Install washer eyes and safety showers near to the handling and storage area.
Shows the location of these facilities, with a clear and prominent warning board.

Personal Protective Equipment (For workers):

Protection of Hands:

Wear protective gloves (e.g. impermeable rubber gloves).



Protection of Eyes: Wear safety glasses when liquid may splash.



Respiratory Protection: Use an approved respirator if exposure limit is exceeded or if irritation or other symptoms occur.



Protection of Body: Recommend wearing uniforms.



General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with eyes and skin.

9. Physical and chemical properties

General Information	
Form	Compressed air tank (containing liquid gas and water)
Color	No data available
Odor	Slightly sweet smelling
Odor threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas, etc.)	Flammable aerosol.
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility (ies)	Soluble in alcohol, ether, water.
Partition coefficient: n-octanol/Water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. Stability and reactivity

Reactivity and Chemical stability: This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions: No relevant information.

Conditions to Avoid: High temperature. Keep away from heat/sparks/open flames/hot surfaces.

Incompatible materials: Strong oxidizer, strong acid and alkali.

Hazardous decomposition products: No relevant information.

11. Toxicological information

Product Toxicity Data:

Ingredient (s)	CAS No.	LD ₅₀ /LC ₅₀ (Median lethal dose)
Water	7732-18-5	No data available

Butane	106-97-8	Acute toxicity (Inhalation) LC ₅₀ > 800,000 ppm/15min (rat) Data source: ECHA
Diethylene Glycol Monobutyl Ether	112-34-5	Acute toxicity (Oral) LD ₅₀ : 6560 mg/kg (rat) Data source: ECHA
Propane	74-98-6	No data available
Potassium Carbonate	584-08-7	Acute toxicity (Oral) LD ₅₀ : 1870 mg/kg (rat) Data source: ECHA
Ethanolamine	141-43-5	Acute toxicity (Oral) LD ₅₀ : 1820 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD ₅₀ : 1220 mg/kg (rabbit) Data source: ECHA
Sodium Lauroyl Sarcosinate	137-16-6	Acute toxicity (Oral) LD ₅₀ : 5000mg/kg (rat) Data source: ECHA
Isobutane	75-28-5	Acute toxicity (Inhalation) LC ₅₀ > 800,000 ppm/15min (rat) Data source: ECHA
Sodium benzoate	532-32-1	Acute toxicity (Oral) LD ₅₀ : 3,140 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD ₅₀ > 2,000 mg/kg (rabbit) Data source: ECHA
Sodium nitrite	7632-00-0	Acute toxicity (Oral) LD ₅₀ : 180 mg/kg (rat) Data source: ECHA
Fragrances		No data available
Triethanolamine	102-71-6	Acute toxicity (Oral) LD ₅₀ : 6,400 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD ₅₀ > 2,000 mg/kg (rabbit) Data source: ECHA
Classification of the whole product:		Not classified

Skin corrosion/irritation

No classification for this product.

Serious eye damage/eye irritation

No classification for this product.

Respiratory sensitizer

No classification for this product.

Skin sensitizer

No classification for this product.

Germ cell mutagenicity

No classification for this product.

Carcinogenicity

No classification for this product.

Reproductive Toxicity	No classification for this product.
Specific target organ toxicity, single exposure:	No classification for this product.
Specific target organ toxicity, repeated exposure:	No classification for this product.
Aspiration hazard	No classification for this product.

12. Ecological information

Ecotoxicity:

Butane (CAS: 106-97-8):

96h-LC₅₀: 91.42 mg/L, fish (ECHA)

Sodium hydroxide (CAS: 1310-73-2):

48h-LC₅₀: 99 mg/L, fish (Lepomis macrochirus) (ECHA)

Sodium benzoate (CAS: 532-32-1):

96h-LC₅₀: 484 mg/L, fish (Pimephales promelas) (ECHA)

Triethanolamine (CAS: 102-71-6):

96h-LC₅₀: 11,800 mg/L, fish (Pimephales promelas) (ECHA)

Sodium nitrite (CAS: 7632-00-0):

96h-LC₅₀: 708.2 mg/L, fish (Anguilla anguilla) (ECHA)

Classification of the whole product: Not classified

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in Soil: No data available

Other adverse effects: No relevant information.

13. Disposal considerations

Waste treatment methods:

It is recommended to use incineration method to dispose of waste.

Any disposal practice must be in compliance with country, local, state, and federal laws and regulations.

Generally this product will not contaminate the packaging, so the packaging can be disposed of as non-hazardous waste.

14. Transport Information

DOT/Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:

UN proper shipping name: AEROSOLS

Transport hazard class(es): 2.1; Subsidiary risk: 8

UN number: 1950

Packing Group: Not applicable

Packing Group Symbol:



Subsidiary risk:

Marine Pollutant (Yes/No): No

EMS NO.: F-D S-U

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable.

Special precautions:

Check whether the package is completed or sealed before transporting; make sure no damage of packages and prevent goods from falling down during transporting; the transport vehicle should be equipped with facilities for fire-fighting and accidental release handling; do NOT transport this product together with incompatible substances; stay away from fire and areas of high temperature during stopovers.

15. Regulatory information

United States:

Section 355 (extremely hazardous substances): Not listed.

SARA 313:

Chemical Name	CAS No.	Weight-%	SARA 313 – Threshold Values %
Sodium nitrite	7632-00-0	0.03	1

Clean Water Act:

Chemical Name	CWA - Reportable Quantities	CWA - Hazardous Substances	CWA - Priority Pollutants	CWA - Toxic Pollutants
Sodium nitrite (CAS: 7632-00-0)	45.4 kg	Listed	Not listed	Not listed

Toxic Substances Control Act (TSCA):

Ingredient (s)	CAS No.	TSCA Inventory
Water	7732-18-5	Listed
Butane	106-97-8	Listed
Diethylene Glycol Monobutyl Ether	112-34-5	Listed
Propane	74-98-6	Listed
Potassium Carbonate	584-08-7	Listed
Ethanolamine	141-43-5	Listed
Sodium Lauroyl Sarcosinate	137-16-6	Listed
Isobutane	75-28-5	Listed
Sodium benzoate	532-32-1	Listed
Sodium nitrite	7632-00-0	Listed
Fragrances		Listed
Triethanolamine	102-71-6	Listed

Carcinogenicity categories: Not applicable.

Other relevant laws and regulations:

Canada Domestic Substances List (DSL):

Ingredient (s)	CAS No.	DSL
Water	7732-18-5	Listed
Butane	106-97-8	Listed
Diethylene Glycol Monobutyl Ether	112-34-5	Listed
Propane	74-98-6	Listed
Potassium Carbonate	584-08-7	Listed
Ethanolamine	141-43-5	Listed
Sodium Lauroyl Sarcosinate	137-16-6	Listed
Isobutane	75-28-5	Listed
Sodium benzoate	532-32-1	Listed
Sodium nitrite	7632-00-0	Listed
Fragrances		Listed
Triethanolamine	102-71-6	Listed

Canada Non-domestic Substance List (NDSL): Not listed.

Candidate List of Substances of very high concern (SVHC) according to ECHA: Not listed.

REACH Regulation Annex XVII Regulation List: Not listed.

REACH Regulation Annex XIV Authorization List: Not listed.

Germany – WGK: Not classified.

(EC) 1272/2008 Annex VI Table 3.1:

Ingredient(s)	EC No. 1272/2008 Classification	
	CLASS. CODE	HAZARD CODE
Butane (CAS: 106-97-8)	Flam. Gas 1 Press. Gas	H220
Propane (CAS: 74-98-6)	Flam. Gas 1 Press. Gas	H220
Isobutane (CAS: 75-28-5)	Flam. Gas 1 Press. Gas	H220
Sodium nitrite (CAS: 7632-00-0)	Ox. Sol. 3 Acute Tox. 3 * Aquatic Acute 1	H272 H301 H400

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

DISCLAIMER:

All the information of this SDS is true and effective, and only for reference. Our company will not control the way how people use it, neither will we be responsible for any consequence. The users shall decide how to properly use the product or adopt certain production way for some special purpose. The above-mentioned precautionary measures are helpful to avoid damage to the property or life safety during the operation or use of this product.

References:

GHS Annex II
GHS SDS Instruction
ANSI Z400.1/Z129.1-2010
OSHA Hazard Communication Standard (HCS) 2012

Full description of some acronyms:

CAS-Chemical Abstracts Service
EINECS-European Inventory of Existing Commercial Chemical Substances
IMO-International Maritime Organization
IMDG-International Maritime Dangerous Goods
IATA-International Air Transport Association
ICAO-International Civil Aviation Organization
TSCA-Toxic Substances Control Act
OSHA-Occupational Safety and Health Administration
ACGIH- American Conference of Governmental Industrial Hygienists
ECHA- European Chemicals Agency
NITE-CHRIP- Japan National Institute of Technology and Evaluation-Chemical Risk Information Platform

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*****The End*****