



Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health
Administration

(Non-Mandatory Form)

Form Approved

Section I- Identification

IDENTITY: *Aerosol whipped creams and toppings in retail sized cans that use nitrous oxide as a whipping propellant.*

Manufacturer's Name: Alamance Foods, Inc.	Emergency Telephone Number 1-800-476-9111
Address: 840 Plantation Drive Burlington, NC 27216	Telephone Number for Information 336-226-6392
Nitrous oxide is used as a whipping propellant for proper dispersing of the cream by the consumer.	Date Prepared: 2/9/2022
	Signature of Preparer (<i>optional</i>):

Section II - Hazards Identification

Hazard Classification	Hazard Category	Signal Word	Hazard Statement	Pictogram
Gases under Pressure	Compressed Gas	Warning	Contains gas under pressure; may explode if heated	

Prevention	Response	Storage	Disposal
		Protect from sunlight. Store in a well-ventilated place.	

Physical State: Non-flammable colorless gas dispersed in a liquid with a mild, sweet odor.

Route(s) of Entry:	Inhalation: YES	Skin: NO	Ingestion: NO
Health Hazards (<i>Acute and Chronic</i>): Deliberate concentration and inhalation of propellant (nitrous oxide) may be harmful by creating symptoms of excitation, euphoria, dizziness with slurred speech and dulling of senses. Acute hazards are associated with inhaling oxygen-deficient atmospheres when product use is abused. Chronic repeated over-exposure may result in injury to the nervous system such as numbness and tingling of the extremities. <u>Directions for safe and proper dispensing of food product (whipped cream or topping) are printed on label and should be followed.</u>			

Supplier of Nitrous Oxide Information:

AIRGAS Inc.
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-525

Section III – Composition

Specific Chemical Identity; Common Name(s)	CAS #	% Volume
Nitrous Oxide	10024-97-2	
Natural French vanilla flavor	NA711	
Water	7732-18-5	
Sugarcane, extract	91722-22-4	
Milk Cream	RR-05445-5	
Mono and Diglycerides	67254-73-3	
Nonfat Dry Milk	N/A269	
The exact percentage of composition has been withheld as a trade secret.		

Section IV – First Aid Measures

Signs and Symptoms of Exposure: None, under correct and normal usage. When abused and inhaled at high concentrations – breathing and pulse rate increased and coordination slightly affected.
Emergency and First Aid Procedures: Inhalation- Remove patient to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, administer artificial respiration or oxygen if breathing stops by a trained person. Loosen tight clothing and get medical attention immediately.
Medical Conditions Generally Aggravated by Exposure: When abused and inhaled in high concentrations may be associated with spontaneous abortion in humans and have potential reproductive, upper respiratory, and central nervous system effects.

Section V – Fire-fighting measures

Flash Point (Method Used): Not applicable.	Flammable Limits: Classified as a Non-Flammable Gas.
Extinguishing Media: Non-flammable	
Special Fire Fighting Procedures: Exposure of cans to temperatures over 120°F may cause bursting. (Large tank fires where nitrous oxide is involved should be isolated from personnel for up to ½ mile and fought with unmanned hoses – if impossible withdraw and let fire burn.)	
Unusual Fire and Explosion Hazards: Pressurized containers may explode in heat and should be removed from fire if possible.	
Special Fire-fighter instructions: Fire-fighters should wear appropriate PPE and self-contained breathing apparatus with a full face piece operated in positive pressure mode.	

Section VI – Accidental release measures

Personal Precautions: Keep unnecessary personnel away. Use personal protective equipment as described in section 8.
Containment and Cleaning: Wash away with water or wipe up spilled cream with towel or mop.

Section VII - Handling and Storage

Precautions to Be taken in Handling and Storing: **Food and propellant filled cans should be shipped and stored under refrigerated conditions of 35°-45°F (1.7°-7.2°C). Contents under pressure. Do not puncture or incinerate container. Do not roll, slide, or drop container. Spray container directly perpendicular to food product. Read proper instructions on can.**

Steps to Be Taken in Case Material is Released or Spilled: **In case of large volume release: clean up food product with soap and water and ventilate the area for dispersal of nitrous oxide gas.**

Environmental Precautions: **Avoid spilling material near soil, waterways, drains, and sewers. Contents of can under pressure, do not puncture or incinerate. Dispose of cans in accordance with local or federal laws and regulations.**

Comments/Precautions: **Nitrous oxide is generally recognized as safe (GRAS) as a direct human food ingredient when used as a propellant. Nitrous oxide is not on the California Proposition 65 lists. This product as packaged has been approved by the U.S. Department of Transportation as exempt from regulations as contained in 49 CFR 173.306 (b) (1), 175.3 and authorizes the transportation in commerce in a refrigerated state and charged (nitrous oxide) to a pressure of 150 psig at 75°F. Containers will be marked “UN1956” (or) “UN1950” and “DOT-SP 7951” (or) “DOT-SP 13601”.**

Section VIII – Exposure Controls and Personal Protection

ACGIH TLV TWA: 90mg/m³ 8 hours or 50ppm 8 hours.		
Ventilation	Local Exhaust: Maintain normal ventilation of storage areas.	Special: None
Respiratory Protection: Respiratory protection is not needed when handling or storing product as packaged for shipment and sale.		
Protective Gloves: None required as packaged.		Eye Protection: None required as packaged.
Other Protective Clothing or Equipment: None required as packaged.		
Work/Hygienic Practices: Follow Good Manufacturing Practices (GMPs).		

Section IX – Physical and Chemical Properties

Physical Form: Compressed gas, n.o.s.

Contents Pressure-each can: max charge @75°F is 170 psig.

Appearance/Description: Off-white, whipped topping

Odor: Milky **Odor Threshold:** Sour

Color: Varies with flavor added

Taste: Creamy, light vanilla, slightly sweet

Boiling Point	N/A	Flammability	N/A
Melting Point	N/A	Flammability Limits	N/A
Specific Gravity	0.157	Vapor Pressure	N/A
Density	N/A	Vapor Density	N/A
Bulk Density	N/A	Relative Density	N/A
pH	Approx. 6	Partition Coefficient	N/A
Water Solubility	Dispersible	Auto-ignition temperature	N/A
Decomposition Temperature	N/A	Viscosity	N/A

Section X - Stability and Reactivity

Reactivity: Stable
Hazardous Polymerization: Hazardous polymerization will not occur.
Conditions to Avoid: None known.
Incompatible Materials: None known.
Hazardous Decomposition Products: None known.

Section XI – Toxicological Information

Material Information: No data available on the material as a whole.			
Component Name	Concentration	CAS	Data
Nitrogen oxide	<5%	10024-97-2	Carcinogenic Effects: A4 by ACGIH, 3 by IARC.
Component Information: Repeated overexposure by inhalation of nitrous oxide (nitrogen oxide) has been linked to adverse effects on the reproductive system, upper respiratory tract, and central nervous system.			

Section XII – Ecological Information

Material Information: Product has not been studied as distributed. No known significant effects or hazards.
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Section XIII - Disposal Considerations

Product:	Consumer: No requirements known for empty cans. They can be recycled where allowed.
	Retailer/Distributor: Dispose of large quantities of spoiled or otherwise unusable product in accordance with local, state, and federal regulations

Section XIV – Transportation Information

DOT - United States - Department of Transportation	
Shipping Name:	Aerosols, non-flammable
Hazard Class:	2.2
Packing Group:	Not Applicable
Labeling Class:	Consumer commodity ORM-D
ID Number:	UN 1950

Section XV – Regulatory Information

SARA Hazard Classifications: Pressure (Sudden Release of)

Inventory				
Component	CAS	DSL	NDSL	TSCA
Nitrogen oxide	10024-97-2	Yes	No	Yes
United States				
Environment				
U.S. – CAA (Clean Air Act) – 1990 Hazardous Air Pollutants	Nitrogen oxide	10024-97-2	<5%	Not Listed
U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities				
U.S. – CWA (Clean Water Act) – Hazardous Substances				
Other				
U.S. – FDA – Food Additives GRAS				
	Nitrogen oxide	10024-97-2	<5%	21 CFR 184.1545
U.S. – California: Environment				
U.S. - California - Proposition 65 - Carcinogens List	Nitrogen oxide	10024-97-2	<5%	Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity				developmental toxicity, initial date 8/1/08
U.S. - California - Proposition 65 - Reproductive Toxicity - Female				Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Nitrogen oxide	10024-97-2	<5%	Not Listed
Other Information: Nitrogen oxide used synonymously with nitrous oxide.				

Section XVI – Other Information

Supersedes Date:	-
Revision Date:	11/28/2016
	<p>The preceding SDS was provided as a courtesy to our customers. The information provided herein is provided in good faith but no warranty regarding its correctness or accuracy is made. Since the conditions for use, handling, storage, and disposal of this product are beyond Alamance Foods' control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the improper use of this product. No warranty regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Alamance Foods disclaims all liability for your use and reliance on any SDS. Various Governmental agencies (e.g. DOT, OSHA, EPA, FDA) may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.</p>