

# SAFETY DATA SHEET

# 1. Identification

in identification			
Product identifier	NutriQuest® Dairy Relieve™		
Other means of identification	None.		
Recommended use	Feed flavor for dairy cattle.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Company name	NutriQuest		
Address	3782 9th Street SW		
	Mason City, IA 50401		
Telephone	641.424.4798		
E-mail	quest@nutriquest.com		
Emergency Phone Number	1.866.519.4752 - Contract Number: 334387		
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 2	
OSHA defined hazards	Combustible dust		
Label elements			
Signal word	Warning		
Hazard statement	Causes skin irritation. Causes serious eye irr air.	itation. May form combustible dust concentrations in	
Precautionary statement			
Prevention	Wash thoroughly after handling. Wear protective gloves and eye/face protection. Prevent dust accumulation to minimize explosion hazard. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Observe good industrial hygiene practices.		
Response	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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. In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

# 3. Composition/information on ingredients

# Mixtures

CAS number	%
1317-65-3	60-80
206752-33-2	10-30
8012-95-1	1-5
	1317-65-3 206752-33-2

Composition comments	The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret. All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.
4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Dust may irritate the respiratory system. Coughing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	May form combustible dust concentrations in air.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Ensure adequate ventilation. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take

methods and materials for containment and cleaning up

F Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautionsNever return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling	Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces No smoking. Explosion-proof general and local exhaust ventilation. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

### **Occupational exposure limits**

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Mineral Oil (CAS 8012-95-1)	PEL	5 mg/m3	Mist.
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Mineral Oil (CAS 8012-95-1)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	Form
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Mineral Oil (CAS 8012-95-1)	STEL	10 mg/m3	Mist.
,	TWA	5 mg/m3	Mist.
logical limit values	No biological exposure limits noted for	the ingredient(s).	
propriate engineering htrols	Explosion-proof general and local exha Ventilation rates should be matched to exhaust ventilation, or other engineerin exposure limits. Provide eyewash stati	conditions. If applicable, use g controls to maintain airbor	process enclosures, local
ividual protection measures,	such as personal protective equipment	nt	
Eye/face protection	Unvented, tight fitting goggles should b	e worn in dusty areas.	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Skin protection			
Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. Check with respiratory protective equipmer suppliers.		
Thermal hazards	Wear appropriate thermal protective clo	othing, when necessary.	
neral hygiene nsiderations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, suc as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

# 9. Physical and chemical properties

### Appearance

Physical state	Solid.
Form	Powder.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not available.
Evaporation rate	Not applicable.
Flammability (solid, gas)	May generate combustible dust.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous	No dangerous reaction known under conditions of normal use.

Conditions to avoidMinimize dust generation and accumulation. Keep away from heat, hot surfaces, sparks, open<br/>flames and other ignition sources. Contact with incompatible materials.Incompatible materialsStrong oxidizing agents. Acids. Fluorine. Aluminum. Magnesium. Ammonium salts. Hydrogen.Hazardous decomposition<br/>productsAbove 1472°F (800°C) limestone (CaCO3) can decompose to lime (CaO) and release carbon<br/>dioxide (CO2).

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.		
Skin contact	Causes skin irritation.		
Eye contact	Causes serious eye irritation.		
Ingestion	Ingestion may cause irritation and malaise.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Dust may irritate the respiratory system. Coughing.		
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# Information on toxicological effects

# Acute toxicity

reactions

Not expected to be acutely toxic.

Components	Species		Test Results	
Mineral Oil (CAS 8012-95-1)				
Acute				
Dermal				
LD50	Rabbit		> 5000 mg/kg	
Inhalation				
LD50	Rat		> 5 mg/l, 4 h	
Oral	D.1			
LD50	Rat		> 5000 mg/kg	
Skin corrosion/irritation	Causes skin			
Serious eye damage/eye irritation	Causes serio	bus eye irritation.		
Respiratory or skin sensitization				
Respiratory sensitization		itory sensitizer.		
Skin sensitization	-	is not expected to cause skin sensitiza		
Germ cell mutagenicity		No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifial	Not classifiable as to carcinogenicity to humans.		
Not listed. <b>NTP Report on Carcinoger</b> Mineral Oil (CAS 8012-9 <b>OSHA Specifically Regulat</b> Not listed.	95-1)	Known To Be Huma ( <b>29 CFR 1910.1001-1053)</b>	an Carcinogen.	
Reproductive toxicity	This product	is not expected to cause reproductive	or developmental effects.	
Specific target organ toxicity - single exposure	Not classified	d.		
Specific target organ toxicity - repeated exposure	Not classified	d.		
Aspiration hazard	Not an aspira	Not an aspiration hazard.		
Chronic effects	Prolonged in	halation may be harmful.		
12. Ecological informatio	n			
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment			
Components		Species	Test Results	
Mineral Oil (CAS 8012-95-1)				
Aquatic				
Acute				
Algae	EL50	Pseudokirchneriella subcapitata	> 100 mg/l, 72 h	
		Daphnia magna	1000  10000  mg/l  10  h	
Crustacea	EL50	Daphilla magna	1000 - 10000 mg/l, 48 h	

Components		Species	Test Results	
Mineral Oil (CAS 8012-95	-1)			
Aquatic				
Acute				
Algae	EL50	Pseudokirchneriella subcapitata	> 100 mg/l, 72 h	
Crustacea	EL50	Daphnia magna	1000 - 10000 mg/l, 48 h	
Fish	LC50	Lepomis macrochirus	> 10000 mg/l, 96 h	
		Pimephales promelas	> 100 mg/l	
ersistence and degradabili	ty No data is	s available on the degradability of any ingr	edients in the mixture.	
oaccumulative potential				
Partition coefficient n-oo	ctanol / water (	log Kow)		
Mineral Oil (CAS 8012-95	,	> 3.5 Estimated		
Bioconcentration factor Mineral Oil (CAS 8012-95	• •	100 - 3000		
obility in soil		No data available for this product.		
obility in general		The product is not volatile but may be spread by dust-raising handling.		
ther adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

### DOT

Not regulated as dangerous goods.

# ΙΑΤΑ

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

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

# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### **Toxic Substances Control Act (TSCA)**

This product contains a chemical substance exempt from U.S. EPA TSCA Inventory requirements. This substance is listed in the American Association of Feed Control Officials (AAFCO) Official Publication and it is regulated for use as animal food under the Food, Drug, and Cosmetic Act (FDCA). The other components of the mixture are designated "active" on the TSCA 8(b) inventory.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

### CADA 202 Extremely becardous output

Not listed.	dous substance
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Combustible dust Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313 (TRI reporting) Not regulated.	

### Other federal regulations

Clean Air Act (CAA) Sectio	n 112 Hazardous Air Pollutants (HAPs) List
Not regulated.	
Clean Air Act (CAA) Sectio	n 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.

### **US state regulations**

### US. Massachusetts RTK - Substance List

Limestone (CAS 1317-65-3) Mineral Oil (CAS 8012-95-1)

### US. New Jersey Worker and Community Right-to-Know Act

Limestone (CAS 1317-65-3) Mineral Oil (CAS 8012-95-1)

### US. Pennsylvania Worker and Community Right-to-Know Law

Limestone (CAS 1317-65-3) Mineral Oil (CAS 8012-95-1)

### US. Rhode Island RTK

Limestone (CAS 1317-65-3) Mineral Oil (CAS 8012-95-1)

### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Mineral Oil (CAS 8012-95-1)

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).		

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	20-September-2019	
Revision date	-	
Version #	01	
Further information	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.	
HMIS® ratings	Health: 2 Flammability: 2 Physical hazard: 0	
Disclaimer	NutriQuest cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.	