



0	HEALTH
1	FLAMMABILITY
0	REACTIVITY
0	PERSONAL PROTECTION

SAFETY DATA SHEET

Section 1: Identification

Product Name:	Organic Cranberry Seed Oil
INCI Name (Proposed):	<i>Vaccinium macrocarpon</i> (cranberry) seed oil
Product Item Code:	020-230
Product Description:	Cold-pressed oil from seed of the American cranberry
Manufacturer:	Northern Lights Food Processing LLC dba Nutrativa Global 310 First Street Nekoosa, WI 54457 USA
Non-Emergency Assistance:	Ph: 715-886-4000
For 24 Hr. Emergency:	Call 715-451-0717
Use of Substance:	Food Ingredient

Section 2: Hazard(s) Identification

Description:	Light Gold to Greenish Color Physical State: Oil Aroma: Characteristic of vegetable oil, mild nutty aroma
Handling:	This product is NOT classified as hazardous according to CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and labeling of Chemicals (OSHA/GHS) SOR/88-66, the Canadian Controlled Products Regulations (CPR); and/or NOM-002-SCT-2003 (Mexico).
OSHA Hazards:	No known OSHA Hazards. Not a dangerous substance.
Environmental Hazards:	None
HMIS Classification:	Health: 0 Flammability: 0

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	Physical Hazard: 0
NFPA Rating:	Health: 0 Fire: 0 Reactivity: 0
Potential Health Effects:	No known health hazards. Follow standard precautionary procedures for similar or same non-hazardous vegetable or fruit oil. Skin: May cause skin irritation. Eyes: May cause eye irritation. Ingestion: Food ingredient. Not a hazardous substance.

Section 3: Composition / Information on Ingredients

Substance:	Organic Cranberry Seed Oil								
Chemical Name:	<i>Vaccinium macrocarpon</i>								
Common Name:	Organic Cranberry Seed Oil								
CAS Number:	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Percentage (%)</th> <th>CAS Number</th> </tr> </thead> <tbody> <tr> <td>Organic Cranberry Seed</td> <td>100</td> <td>91770-88-6</td> </tr> </tbody> </table>			Ingredient	Percentage (%)	CAS Number	Organic Cranberry Seed	100	91770-88-6
Ingredient	Percentage (%)	CAS Number							
Organic Cranberry Seed	100	91770-88-6							
Additives:	None								
GRAS:	Considered GRAS								
Hazard Status:	Food ingredient is NOT hazardous according to OSHA criteria								

Section 4: First Aid Measures

Inhalation:	Aspiration of oil or mist of oil could cause inflammation of the membranes and recommended to seek medical advice.
Skin contact:	Wash off thoroughly with soap and water.
Eye contact:	If irritation occurs, flush eyes with water for at least 15 minutes while holding eyelid open. Seek immediate medical attention if irritation persists.
If swallowed:	Not harmful for ingestion, food ingredient is nontoxic and should pass through the digestive system. If symptoms develop, seek medical attention.

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Section 5: Fire-Fighting Measures

Conditions of flammability:	Materials may pose fire hazard.
Suitable extinguishing media:	Use regular foam, water fog, carbon dioxide, sand; treat as an oil fire. (Do not use water)
Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary. Keep free of ignition sources.
Hazardous combustion products:	Nature of decomposition products not known.
NFPA Health:	0
NFPA Stability and Reactivity:	0
NFPA Flammability:	1
NFPA Physical Hazard:	0

Section 6: Accidental Release Measures

Personal Protection:	Normal non-hazardous liquid manufacturing practices. Avoid breathing, may wear rubber gloves to avoid skin contact and may wear safety goggles or glasses.
Spillage or Leakage:	Absorb on inert absorbent substrate (sand, sawdust) and sweep up for disposal. Wash area with soap and water to remove final traces. Slip-proof shoes may be worn to avoid falls.
Environmental Precautions:	Dispose per local, state and federal regulations.
Methods and materials for containment and cleaning up:	Keep in suitable, closed containers for disposal. Sweep or shovel materials for disposal.

Section 7: Handling and Storage

Conditions for safe storage:	Ensure dry, well-ventilated storage area, ambient temperature. Immediately clean any spillage to avoid
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	accidents. Away from ignition sources or open flames. Away from areas of oxidation and nitrogen purge any opened and resealed containers.
Storage Temperature:	Cool, dry, and ambient temperature.
Transport Temperature:	Ambient
Loading / Unloading Temperature:	Ambient
Hygiene:	Use good personal hygiene practices. Promptly remove soiled clothing and wash before reuse.

Section 8: Exposure Controls / Personal Protection

Occupational exposure limit values:	Contains no substances with occupational exposure limited values.
Respiratory Protection:	Respiratory protection not required. For nuisance exposures, use 3M Dust Respirator No. 8701 or 9900, or a NOISH / MSHA jointly approved dust respirator.
Hand Protection:	No hand protection required. Recommend glove use to protect product from contamination, and following all OSHA required standards for food ingredients. Dispose of used gloves after use in accordance with applicable laws and good manufacturing practices. Wash and dry hands.
Eye Protection:	Safety glasses recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) and EN 166 (EU).
Skin and Body Protection:	The type of protective clothing should be selected according to the amount of use and appropriateness at the specific workplace. Remove soiled clothing and wash before reuse.
Hygiene Measures:	Use good industrial and personal hygiene practices.

Section 9: Physical and Chemical Properties

Appearance:	Light gold to greenish oil
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Color:	Light gold to greenish
Flavor:	Light buttery oil flavor
Odor:	Characteristic of vegetable oil, mild nutty aroma
pH:	4.8
Specific gravity:	N/A
Melt Point/Freezing Point:	N/A
Smoke Point:	N/A
Flash Point:	450 F
Auto-ignition temp:	650 F
Lower explosion limit:	N/A
Upper explosion limit:	N/A
Boiling point:	N/A
Water solubility:	Insoluble
Partition coefficient:	N/A
Vapor pressure:	N/A
Vapor density:	N/A
Relative density:	N/A
Tapped density:	N/A
Odor threshold:	N/A
Evaporation rate:	N/A

Section 10: Stability and Reactivity

Chemical Stability:	Stable under normal conditions. Recommended ambient, dry storage conditions.
Possibility of hazardous reaction:	None known.
Conditions to avoid:	Heat, direct sunlight, moisture, contact with ignition source.
Materials to avoid:	Oxidizing agents, chlorine
Hazardous decomposition products:	Nature of decomposition is not known. Thermal decomposition at 190 F

Section 11: Toxicological Information

Acute toxicity:	None known.
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Skin corrosion:	None known.
Serious eye damage:	None known. Dust may cause eye irritation. If irritation occurs, flush thoroughly with water for at least 15 minutes while holding eyelid open.
Respiratory or skin sensitization:	None known.
Carcinogenicity:	None known.
Reproductive Toxicity:	None known.
Teratogenicity:	None known.
Specific target organ toxicity:	None known.
Aspiration hazard:	May be harmful if inhaled.
Potential health effects:	None known.
Signs and symptoms of exposure:	None known.
Synergistic effects:	None known.

Section 12: Ecological Information

Toxicity:	Contains no substances known to be hazardous to the environment. Contains no substances known to be non-degradable in waste treatment facilities.
Persistence and degradability:	Readily biodegradable.
Bio accumulative potential:	N/A
Mobility:	Insoluble in water; will float in water.
PBT and vPVB assessment:	N/A
Other adverse effects:	N/A

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Section 13: Disposal Considerations

Waste disposal method:	Dispose of with other normal, solid waste or in accordance with local, state and federal regulations.
Recycle:	Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

Section 14: Transport Information

USA (DOT)	Not regulated; Not dangerous goods. Ingredient is not a hazardous material for purposes of transportation under the U.S. Department of Transportation Table of Hazardous Materials, 49 CFR 172.101
Canada (TDG)	Food ingredient.
Other (ICAO/IATA)	Not classified as dangerous good under transport regulations.
Labeling on packaging:	No special requirements

Section 15: Regulatory Information

USA Federal Regulations

TSCA:	CAS# 91770-88-6 is listed on the TSCA inventory.
Health and Safety Reporting List:	CAS# 91770-88-6 is not listed on the H&SRList.
Chemical Test Rules:	CAS# 91770-88-6 is not under a Chemical Test Rule.
Section 12b:	CAS# 91770-88-6 is not under TSCA Section 12b.
Significant Use Rule:	CAS# 91770-88-6 does not have a SNUR under TSCA.
OSHA Hazards:	No known OSHA Hazards.
California Prop 65:	This product does NOT chemicals known to the State of California to cause cancer.

European / International Regulations

Hazard symbols:	None
Risk phrases:	R 36 Irritating to eyes.
Safety phrases:	S 15 Keep away from sources of ignition. S 18 Handle an open container with care.

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S 26 In case of contact with eyes rinse immediately with water and seek medical advice.

S 39 Wear eye and face protection.

S 43 In case of fire never use water.

Section 16: Other Information

Northern Lights Food Processing LLC, dba Nutrativa Global DISCLAIMER

The information and recommendations contained herein are based upon data believed to be correct, to the best of our knowledge, information and belief at the date of its publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification of any kind, either expressed or implied. This information relates only to the specific materials designated and may not be valid for such material used in combination with any other materials or in any process. We accept no responsibility and disclaim all liability for any harmful effects, which may be caused by purchase, resale, use or exposure to this ingredient. It is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage, or exposure due to improper use of this product. Customers/users must comply with all applicable health and safety laws and regulations.

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