



SAFETY DATA SHEET

CO2GINGERTONG52
VERSION NO. 1

GINGER CO2 TOTAL EXTRACT

*Prepared to US OSHA, CMA, ANSI, Canadian WHMIS Standards,
Australian WorkSafe, Japanese Industrial Standard JIS Z
7250:2000, and European Directives*

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled):	GINGER CO2 TOTAL EXTRACT
Botanical Name:	Zingiber officinalis
INCI Name:	Zingiber Officinalis (Ginger) Root Extract
Synonyms:	None
CAS No:	84696-15-1
EINECS No:	283-634-2
FEMA No:	Not available
1.2 Product Use:	Personal Care Formulations
1.3 Company Name:	Natural Sourcing, LLC.
Company Address:	341 Christian Street, Oxford, CT 06478, USA
Business Phone:	(800) 340-0080
Website:	www.naturalsourcing.com
Email:	info@naturalsourcing.com
1.4 Emergency Telephone Number:	Chemtrec: (800) 262-8200
Date of Current Revision:	January 26, 2024
Date of Last Revision:	New

2 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a brown liquid with a characteristic odor.
Health Hazards: May cause skin irritation and / or an allergic skin reaction. May be an aspiration hazard.
Flammability Hazards: This product is not considered a Flammable liquid with a flash point > 200°F.
Reactivity Hazards: None.
Environmental Hazards: Release of this product will cause adverse effects in the environment.

US DOT Symbols:

See Section 14

EU and GHS Symbols:



Signal Word:

Danger!

2.1 EU Labeling and Classification:

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 and regulation (EU) No. 2020/878 and regulation (EC) No. 1272/2008

Components Contributing to Classification: Ginger extract (total extract)

2.2 Label Elements:

GHS Hazard Classifications:	Skin Irritation Category 2 Skin Sensitization Category 1 Aspiration Hazard Category 1 Aquatic Chronic Category 2
Hazard Statements:	H315 Causes skin irritation H317 May cause an allergic skin reaction H304 May be fatal if swallowed and enters airways H411 Toxic to aquatic life with long lasting effects
Prevention Statements:	P210 Keep away from heat, hot surfaces, sparks, open flames and P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash area affected thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective glove/eye protection/face protection. P284 [In case of inadequate ventilation] wear respiratory protection.
Response Statements:	P302+P352 IF ON SKIN: Wash with plenty of water. P362+P364: Take off contaminated clothing and wash it before reuse. P332+P313 If skin irritation or rash occurs: Get medical advice/attention. P304+P340: IF INHALED: remove person to fresh air and keep comfortable for breathing. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331: Do NOT induce vomiting.
Storage Statements:	P403+P235 Store in a well-ventilated place. Keep cool. P405: Store locked up.
Disposal Statements:	P501 Dispose of contents/container in accordance with local regulations.

2.3 Health Hazards or Risks From Exposure:

Other Hazards

Endocrine Disruptor Information: This product does not contain chemicals on the Candidate List of substances of very high concern for Authorisation.

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin. The symptoms of overexposure are described in the following paragraphs.

Acute:

- Inhalation: May cause respiratory irritation.
- Skin Contact: May cause skin irritation upon direct contact. May cause allergic reaction.
- Eye Contact: May cause eye irritation.
- Ingestion: May be harmful if swallowed. Aspiration hazard.

Chronic: No data available.

Target Organs:

- Acute: Skin, eyes, respiration system
- Chronic: No data available

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Type of Product: Natural Sourcing CO2 Extracts

Ingredients:	WT%	CAS No.	EINECS No.	Hazard Classification
Ginger extract (total extract)	100%	84696-15-1	283-634-2	Skin Irrit 2, Skin Sens 1, Asp Tox 1, Aquatic Chronic 2

4 FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact:

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Seek medical attention if irritation persists.

Skin Contact:

Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

Inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

Ingestion:

If product is swallowed, call physician or poison center if you feel unwell. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Medical Conditions Generally Aggravated by Exposure:

No data available

4.2 Symptoms and Effects Both Acute and Delayed:

May cause skin, eye, and respiratory system irritation. Can cause an allergic respiratory or skin reaction. May be an aspiration hazard.

4.3 Recommendations to Physicians:

Treat symptoms and eliminate overexposure.

5 FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials:

Water Spray: No
Foam: Yes
Halon: Yes

Carbon Dioxide: Yes
Dry Chemical: Yes
Other: Any "B" Class

5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result in the formation of a toxic aqueous solution. Do not allow run-off from firefighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No

Explosive Sensitivity to Static Discharge: No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM		HMIS RATING SYSTEM															
HAZARDOUS MATERIAL IDENTIFICATION SYSTEM																	
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		<table border="1"> <thead> <tr> <th colspan="4">PROTECTIVE EQUIPMENT</th> </tr> <tr> <th>EYES</th> <th>RESPIRATORY</th> <th>HANDS</th> <th>BODY</th> </tr> </thead> <tbody> <tr> <td></td> <td>See Sect 8</td> <td></td> <td>See Sect 8</td> </tr> </tbody> </table>				PROTECTIVE EQUIPMENT				EYES	RESPIRATORY	HANDS	BODY		See Sect 8		See Sect 8
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EYES	RESPIRATORY	HANDS	BODY														
	See Sect 8		See Sect 8														
<p>Hazard Scale: 0 = Minimum 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard</p>																	

6 ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7 HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

7.2 Storage and Handling Practices:

Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Avoid uncoated metal container. Keep air contact to a minimum.

7.3 Specific Uses:

Personal care formulations.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure Parameters:

No specific data available for this product.

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:

Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Eye Protection:

Safety glasses or goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

Hand Protection:

Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

Body Protection:

Use body protect appropriate to task being performed.
 If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties:**

Appearance (Physical State and Color): This product is a brown liquid

Odor: Characteristic odor

Odor Threshold: Not Available

pH: Not Available

Melting/Freezing Point: Not Available

Boiling Point: Not Available

Flash Point: 94°C

Evaporation Rate: Not Available

Flammability (Solid; Gas): Not Available

Upper/Lower Flammability or Explosion Limits: Not Available

Vapor Pressure (mm Hg @ 20°C (68°F): Not Available

Vapor Density: Not Available

Relative Density: Not Available

Specific Gravity: Not Available

Solubility in Water: Insoluble

Weight per Gallon: Not Available

Partition Coefficient (n-octanol/water): Not Available

Auto-Ignition Temperature: Not Available

Decomposition Temperature: Not Available

Viscosity: Not Available

9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

Explosives: Not Available

Flammable Gases: Not Available

Aerosols: Not Available

Oxidizing Gases: Not Available

Gases Under Pressure: Not Available

Flammable Liquids: Not Available

Flammable Solids: Not Available

Self-Reactive Substances and Mixtures: Not Available

Pyrophoric Liquids: Not Available

Pyrophoric Solids: Not Available

Self-Heating Substances and Mixtures: Not Available

Substances and Mixtures, Which Emit Flammable Gases In Contact With Water: Not Available

Oxidizing Liquid: Not Available

Oxidizing Solid: Not Available

Organic Peroxides: Not Available

Corrosive to Metals: Not Available

Desensitized Explosives: Not Available

Gases Under Pressure: Not Available

9.2.2 OTHER SAFETY CHARACTERISTICS

Mechanical Sensitivity: Not Available

Self-Accelerating Polymerization Temperature: Not Available

Formation of Explosible Dust/Air Mixtures: Not Available

Acid/Alkaline Reserve: Not Available

Evaporation Rate: Not Available
Miscibility: Not Available
Conductivity: Not Available
Corrosiveness: Not Available
Gas Group: Not Available
Redox Potential: Not Available
Radical Formation Potential: Not Available
Photocatalytic Properties: Not Available

10 STABILITY AND REACTIVITY

10.1 Reactivity:	This product is not reactive.
10.2 Stability:	Stable under conditions of normal storage and use.
10.3 Possibility of Hazardous Reactions:	Will not occur.
10.4 Conditions to Avoid:	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
10.5 Incompatible Substances:	Oxidizing agents.
10.6 Hazardous Decomposition Products:	The product does not decompose under normal usage conditions.

11 TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:	Oral – LD50 >5000 mg/kg (Rat) – OECD Guideline 401
Suspected Cancer Agent:	Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.
Irritancy:	Skin: Expected to be an irritant
Sensitization to the Product:	This product is expected to cause skin sensitization.
Reproductive Toxicity:	No specific information is available concerning the effects of this product and its components on the human reproductive system.
11.2 INFORMATION ON OTHER HAZARD CLASSES WHICH RELATES TO ENDOCRINE DISRUPTING PROPERTIES:	No specific data available for this product.

12 ECOLOGICAL INFORMATION

12.1 Toxicity:	No specific data available on this product.
12.2 Persistence and Degradability:	No specific data available on this product.
12.3 Bioaccumulative Potential:	No specific data available on this product.
12.4 Mobility in Soil:	No specific data available on this product.
12.5 Results of PBT and vPvB Assessment:	No specific data available on this product.
12.6 Endocrine Disrupting Properties:	No specific data available on this product.
12.7 Other Adverse Effects:	No data available
12.8 Water Endangerment Class:	At present, there are no ecotoxicological assessments for this product.

13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:	Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.
13.2 EU Waste Code:	Not determined

14 TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:	UN3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Limonene)
Hazard Class Number and Description:	Class 9 – Environmentally Hazardous Substance
Packing Group:	III

DOT Label(s) Required: Environmental / Marine
North American Emergency Response Guidebook Number: 171
RQ Quantity: None

14.2 Environmental Hazards:**Marine Pollutant:**

The components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.3 Special Precaution for User:

When shipping as non-bulk this product can be shipped as Non-Regulated.

14.4 International Air Transport Association Shipping Information (IATA):

This product is considered as dangerous goods.

14.5 International Maritime Organization Shipping Information (IMO):

This product is considered as dangerous goods.

14.6 Transport in Bulk According to Annex II of Marpol 73/78 and IBC Code:

European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR:)

This product is considered by the United Nations Economic Commission for Europe to be dangerous goods.

15 REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:****United States Regulations:****U.S. SARA Reporting Requirements:**

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: None

U.S. SARA Threshold Planning Quantity:

There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA Reportable Quantity:

None

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

None known

15.2 Canadian Regulations:**Canadian DSL/NDSL Inventory Status:**

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is considered hazardous per WHMIS Controlled Product Regulations.

15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing and New Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

16 ADDITIONAL INFORMATION**Abbreviations and acronyms**

ACGIH	American Conference of Governmental Industrial Hygienists
CFR	Code of Federal Regulations
DOT	Federal Department of Transportation
GHS	The Globally Harmonized System of Classification and Labelling of Chemicals
HMIS	Hazardous Material Identification System
HCS	Hazard Communication Standard
IARC	International Agency for Research on Cancer
IATA	The International Air Transport Association
ICAO	The International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LD50/LC50	Lethal Concentration/Dose, 50 percent
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health
PEL	Permissible Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
TLV	ACGIH Threshold Limit Value
TWA	Time-Weighted Average

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. Natural Sourcing, LLC. assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Natural Sourcing, LLC assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

Revision Log

01/26/2024 – Document Creation

END OF SDS SHEET