LEMONGRASS CO2 EXTRACT OIL

PRODUCT CODE: GF2502

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Description	Lemongrass CO2 Extract Oil
CAS #	8007-02-1
Botanical Name	Cymbopogon citratus
Product Code #	GF2502
Recommended use	Cosmetic raw material; aromatherapy and natural perfumery.
Company Name	Gattefosse Aromatherapy
Website	www.gattefosse.tw
Email	gattefosseoffice@gmail.com

2. HAZARD(S) IDENTIFICATION

Physical hazards	No significant physical hazards under normal conditions of use.
Health hazards	May cause skin and eye irritation. May cause an allergic skin reaction in susceptible individuals.
Environmental hazards	May be harmful to aquatic life.
Signal word	Warning
Precautionary statements	P210 Keep away from heat, sparks and open flames. P264 Wash thoroughly after handling. P280 Wear protective gloves and eye/face protection. P273 Avoid release to the environment. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Note	Common-template safety data sheet; verify the hazard classification against this product's specific composition and allergen data before regulatory use.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical / INCI Name	CAS number
Lemongrass CO2 Extract Oil	8007-02-1

4. FIRST-AID MEASURES

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
Eye contact	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Direct contact with eyes may cause temporary irritation.
Most important	symptoms/effects, acute and delayed Not available.

Indication of immediate medical	attention and special treatment needed Ensure that medical personnel are aware of the material(s) involved, and take precautions to
General information	protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from	Fire may produce irritating, corrosive and/or toxic gases. the chemical:
Special protective equipment	Firefighters must use standard protective equipment including flame retardant coat, helmet with and precautions for face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective firefighters: clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires. In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and
Fire fighting	consider the hazards of other involved materials. Move containers from fire area if you can do so equipment/instructions: without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control. Use water spray to cool unopened containers.
Specific methods:	General fire hazards: Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.

Personal precautions, protective	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless equipment and emergency wearing appropriate protective clothing. Ventilate closed spaces before entering them. procedures: Collect and dispose of spillage as indicated in section 13 of the SDS.
Methods and materials for	containment and cleaning up: Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.
Large Spills	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.
Small Spills	Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local
Environmental precautions:	authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. HANDLING AND STORAGE

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary

Precautions for safe handling:	measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Keep container closed. Handle containers with care. Open slowly in order to control possible Conditions for safe storage, pressure release. Store in a cool, well-ventilated area. including any incompatibilities:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This substance has no PEL, TLV, or other recommended exposure limit.

Occupational exposure limits:	No biological exposure limits noted for the ingredient(s).
Biological limit values:	Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation
Appropriate engineering controls:	should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment Wear safety glasses with side shields (or goggles).

Eye/face protection:	Skin protection
Hand protection:	Chemical resistant gloves.
Other:	Wear suitable protective clothing.
Respiratory protection:	Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.
Thermal hazards:	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations:	Always observe good personal hygiene measures, such 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	Pale yellow to reddish brown liquid
Odour	Very strong and stimulating characteristic lemon odor.
Solubility	Soluble in alcohol and oils. Insoluble in water.
Specific gravity	0.880 – 0.906 @ 20°C
Optical rotation	-3.0 to +2.0 @ 20°C
Refractive index	1.4785 – 1.4890 @ 20°C
Flash point	> 100°C

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. reactions:
Conditions to avoid:	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition	No hazardous decomposition products if stored and handled as indicated. products:

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Inhalation: Knowledge about health hazard is incomplete.
Skin contact:	Knowledge about health hazard is incomplete.
Eye contact:	Knowledge about health hazard is incomplete.
Ingestion:	Expected to be a low ingestion hazard.
Symptoms related to the	Direct contact with eyes may cause temporary irritation. physical, chemical and toxicological characteristics:
Information on toxicological effects	Acute toxicity: Not available. Due to partial or complete lack of data the classification is not possible.
Skin corrosion/irritation:	Serious eye damage/eye Due to partial or complete lack of data the classification is not possible. irritation:
Respiratory or skin sensitization	Respiratory sensitization: Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.
Skin sensitization:	Germ cell mutagenicity: Due to partial or complete lack of data the classification is not possible.
Carcinogenicity:	Due to partial or complete lack of data the classification is not possible. IARC Monographs. Overall Evaluation of Carcinogenicity: Not listed. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053): Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.

Reproductive toxicity:	Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity -	single exposure:
Specific target organ toxicity -	Due to partial or complete lack of data the classification is not possible. repeated exposure:
Aspiration hazard:	Due to partial or complete lack of data the classification is not possible.

12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not exclude the

Ecotoxicity:	possibility that large or frequent spills can have a harmful or damaging effect on the environment. No data is available on the degradability of this substance.
Persistence and degradability:	Bioaccumulative potential: No data available.
Mobility in soil:	No data available.
Other 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

Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain

Disposal instructions:	into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.
Local disposal regulations:	Not established.
Hazardous waste code:	Empty containers or liners may retain some product residues. This material and its container must

Waste from residues / unused	be disposed of in a safe manner (see: Disposal instructions). products: Since emptied containers may retain product residue, follow label warnings even after container is
Contaminated packaging:	emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Transport	Rule
Hazard class	Packing group
UN number	Land
RID/ADR	Maritime
IMDG	Not Regulated
Not Regulated	Not Regulated
Air	IATA/DGR

15. REGULATORY INFORMATION

US federal regulations	Toxic Substances Control Act (TSCA): 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. Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance:	Not listed.
SARA 311/312 Hazardous:	No listed
SARA 313 (TRI reporting):	Not regulated.
Other federal regulations	Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.
Safe Drinking Water Act (SDWA):	Not regulated.

16. OTHER INFORMATION

Disclaimer:	Gattefosse 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 above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of our knowledge. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.