

Material Safety Data Sheet

24 HOUR EMERGENCY NUMBER:
(800) 222-1222 POISON CONTROL

SECTION 1.1 PRODUCT IDENTIFICATION

Product Name: Grapefruit Essential Oil
CAS #: 8016-20-4
EINECS #: 289-904-6

SECTION 1.2 COMPANY INFORMATION

Company: Nature's Fusions
Address: 57 N 1380 W, Orem, UT, 84057
Telephone No: 801-872-9500

SECTION 2.1 HAZARDS CLASSIFICATION

GHS-US Classification: Flammable Liquid 3
 Skin Corrosion/Irritation 2
 Sensitization - Skin 1
 Aspiration Toxicity 1
 Aquatic Acute Environment 1
 Aquatic Chronic Environment 1

SECTION 2.2 HAZARDS IDENTIFICATION

Signal Word: Danger
Hazard Pictograms:



Hazard Statement: H226 Flammable liquid and vapor.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H304 May be fatal if swallowed and enters airways.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Explosion-free electrical equipment and lighting with earth.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P280 Wear protective gloves/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P370+P378 In case of fire: Use media other than water to extinguish.

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P403+P235 Store in a well-ventilated place. Keep cool.
P264 Wash face, hands, and any exposed skin thoroughly after handling.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P301+P310+P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P405 Store locked up.
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 2.3 OTHER HAZARDS IDENTIFICATION

Other Hazards: No additional information available.

SECTION 3. COMPOSITION

Product Name	CAS #	EC #	Concentration
Grapefruit	8016-20-4	289-904-6	100%

SECTION 4.1 NECESSARY FIRST AID MEASURES

Eye Contact:	In case of contact with eyes rinse thoroughly with water.
Inhalation:	Attend to fresh air. In case of complaints seek medical attention.
Ingestion:	If swallowed, do not induce vomiting; call for medical help immediately.
Skin Contact:	In case of contact with skin wash immediately with soap and water.

SECTION 4.2 SYMPTOMS

Eye Contact:	No additional information available.
Inhalation:	No additional information available.
Ingestion:	No additional information available.
Skin Contact:	No additional information available.

SECTION 4.3 OTHER FIRST AID MEASURES

Medical Attention/Special Treatment:	Treat Symptomatically.
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SECTION 5.1 EXTINGUISHING

Suitable Extinguishing media:	CO2. Alcohol-resistant. Foam.
Unsuitable Extinguishing media:	Water.

SECTION 5.2 SPECIAL HAZARDS

Special Hazards Arising from Chemical:	Vapors may form explosive mixture with air.
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SECTION 5.3 FIRE FIGHTING MEASURES

Firefighter Instructions:	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Protection during firefighting:	Wear self-contained breathing apparatus and protective suits.

SECTION 6.1 ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Follow safety measures in section 7 and 8. Use personal protective equipment.
Protective equipment:	No additional information available.
Environmental Precautions:	Do not allow to enter canalisation/waterways/groundwater. Inform respective authorities in case of seepage into water course or sewage system.

SECTION 6.2 ACCIDENTAL RELEASE CLEANING MEASURES

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Methods and Material for
Cleaning Up:

Soak up with absorbent, inert material (sand, universal binders) and dispose contaminated material as waste according to section 13. Dispose of in accordance with federal, state, and local environmental regulations.

SECTION 7.1 PRECAUTIONS FOR HANDLING

Precautions for handling:

Use only in well ventilated area. Avoid contact with skin, eyes, and clothing.
NO SMOKING.

SECTION 7.2 CONDITIONS FOR SAFE STORAGE

Conditions for safe storage:

Store in well filled tight suitable containers; drums should only be considered as a means of transportation. Do not store with flammable or explosive materials and strong oxidizing agents. Keep drums tightly closed. Store dark, dry and under cold temperatures. Protect against warming / overheating. Recommended storage temperature: 8-12°C.

SECTION 8.1 EXPOSURE AND ENGINEERING CONTROLS

PEL, ACGIH, TLV exposure
limit:

No additional information available.

Appropriate engineering
controls:

Showers. Eyewash stations. Ventilation system.

SECTION 8.2 PERSONAL PROTECTION/EQUIPMENT

Eye/Face Protection:

Use tightly sealed goggles.

Hand Protection:

Wear protective gloves.

Skin and Body Protection:

Wear protective clothing.

Respiratory Protection:

Wear suitable respiratory equipment in case of insufficient ventilation.
Suitable respiratory protection: filter class A2 (brown color).

Environmental Exposure
Control:

No additional information available.

SECTION 8.3 ADDITIONAL INFORMATION

Other:

No additional information available.

SECTION 9.1 PHYSICAL PROPERTIES

Appearance:

Thin, peach to reddish orange to amber liquid.

Odor:

Middle note with a medium aroma, Grapefruit Pink has a fresh, sweet citrus smell that is very characteristic of the fruit.

Odor Threshold:

No data available.

Physical State:

Liquid.

SECTION 9.2 CHEMICAL PROPERTIES

pH:	No data available.
Melting Point/Freezing Point:	No data available.
Boiling Point:	171° C /760 mm
Flash Point:	51° C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limits:	Product is not explosive, however formation of explosive air/vapor mixtures are possible.
Vapor Pressure:	<50 @ 55° C
Vapor Density:	No data available.
Specific Gravity:	0.844 - 0.956 @ 25° C (77° F)
Solubility:	Insoluble water, soluble alcohol.
Partition coefficient: (n-octanol/water)	No data available.
Autoignition Temp:	No data available.
Decomposition Temp:	No data available.
Viscosity:	Mobile Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	Heating causes vaporization and formation of ignitable atmosphere is possible. Direct sources of heat.
Chemical Stability:	No additional information available.
Hazardous Reactions:	Formation of explosive gas mixture with air possible. In case of unpropitious storing conditions (air admission, heat accumulation) self-ignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder).
Incompatible Materials:	Strong alkalis, acids and strong oxidizing agents.
Hazardous Combustion or Decomposition Products:	Carbon monoxide, carbon dioxide.

SECTION 11.1 ROUTES OF EXPOSURE

Inhalation:	Refer to section 4.2
Skin Contact:	Irritant to skin and to mucous membranes.
Eye Contact:	Irritating effect.
Ingestion:	Refer to section 4.2

SECTION 11.2 RELATED SYMPTOMS

Inhalation:	Refer to section 4.2
Skin Contact:	Refer to section 4.2
Eye Contact:	Refer to section 4.2
Ingestion:	Refer to section 4.2

SECTION 11.3 OTHER TOXICOLOGICAL INFORMATION

Delayed/Chronic Effects:	May cause allergic reactions on skin, may result in difficulty breathing.
Toxicity:	Oral LD50: 4,400 mg/kg

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SECTION 12.1 ECOLOGICAL INFORMATION

Eco-toxicity:	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Persistence and Degradability:	No additional information available.
Bio-accumulative:	Naturally occurring d-limonene is the principal component of ruby grapefruit and is biodegradable; 100% 2 days
Mobility in Soil:	Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

SECTION 12.2 OTHER ECOLOGICAL INFORMATION

Other Adverse Effects:	Also poisonous for fish and plankton in water bodies. May cause long-term adverse effects in the aquatic environment. Very toxic for aquatic organisms. Water hazard class 2 (German regulation) (VwVwS 3822; CAS 84929-38-4): hazardous for water.
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SECTION 13. DISPOSAL CONSIDERATION

Waste Disposal Method:	Recycling is preferred to disposal and burning. If recycling is not possible, dispose in accordance with federal, state and local environmental regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contaminated Packaging Disposal Method:	Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Packaging that may not be cleansed are to be disposed of in the same manner as the product. Moistened solids (e.g. cloth, pulp, filter panels, binder) can be burnt after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping (Land):	Not regulated
IATA Shipping (Air):	Regulated
IMDG Shipping (Boat):	Regulated. Marine Pollutant: Yes.
Proper Shipping Name:	Flammable Liquids, N.O.S.
UN #:	1997
Hazard Class:	3
Packaging Group:	III

SECTION 15. REGULATORY INFORMATION

US Federal Regulations:	No additional information available.
International Regulations:	No additional information available.

SECTION 16. OTHER INFORMATION

Health Hazard (HMIS):	N/A
Flammability Hazard (HMIS):	N/A
Physical Hazard (HMIS):	N/A
Sara 313:	None
California Proposition 65:	This product contains trace amounts of naturally occurring Beta-Myrcene. Product is California Proposition 65 compliant.

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