

# SAFETY DATA SHEET

## DARK COCOA & SPICED RUM FRAGRANCE OIL

### 1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Dark Cocoa & Spiced Rum Fragrance Oil

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,  
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

### 2. HAZARD IDENTIFICATION

#### Classification of the substance or mixture

#### GHS US classification

Flammable liquid, Category 1 H224 Extremely flammable liquid and vapor.

Skin corrosion/irritation, Category 2 H315 Causes skin irritation.

Skin sensitization, Category 1 H317 May cause an allergic skin reaction.

Full text of H statements : see section 16

#### GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger

Hazard statements (GHS US) :

H224 - Extremely flammable liquid and vapor

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

Precautionary statements (GHS US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

- P240 - Ground/Bond container and receiving equipment.
- P241 - Use explosion-proof equipment.
- P242 - Use non-sparking tools.
- P243 - Take action to prevent static discharges.
- P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.
- P264 - Wash hands, forearms and face thoroughly after handling.
- P272 - Contaminated work clothing must not be allowed out of the workplace.
- P280 - Wear protective gloves.
- P302+P352 - If on skin: Wash with plenty of water.
- P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P321 - Specific treatment (see supplemental first aid instruction on this label).
- P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse.
- P370+P378 - In case of fire: Use appropriate media to extinguish.
- P403+P235 - Store in a well-ventilated place. Keep cool.
- P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

**Other hazards which do not result in classification**

No additional information available

**Unknown acute toxicity (GHS US)**

Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

Not applicable

**Mixtures**

Name	Product identifier	%	GHS US classification
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super)	(CAS-No.) 54464-57-2	10 – 30	Skin Irrit. 2, H315 Skin Sens. 1B, H317
VANILLIN	(CAS-No.) 121-33-5	1 – 5	Eye Irrit. 2A, H319 Skin Sens. 1B, H317

COUMARIN	(CAS-No.) 91-64-5	1 – 5	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8,-hexamethyl-2-naphthyl)ethan-1-one	(CAS-No.) 21145-77-7	1 – 5	Acute Tox. 4 (Oral), H302
2-ethyl-3-hydroxypyran-4-one	(CAS-No.) 4940-11-8	1 – 5	Acute Tox. 4 (Oral), H302
LINALYL ACETATE	(CAS-No.) 115-95-7	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
ETHYL VANILLIN	(CAS-No.) 121-32-4	1 – 5	Eye Irrit. 2B, H320
CASHMERAN	(CAS-No.) 33704-61-9	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317

Full text of hazard classes and H-statements : see section 16

#### 4. FIRST AID MEASURES

##### Description of first aid measures

First-aid measures general :

If you feel unwell, seek medical advice.

First-aid measures after inhalation :

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact :

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact :

Rinse eyes with water as a precaution.

First-aid measures after ingestion :

Call a poison center/doctor/physician if you feel unwell.

##### Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation :

None under normal conditions.

Symptoms/effects after skin contact :  
Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact :  
None under normal conditions.

Symptoms/effects after ingestion :  
None under normal conditions.

**Immediate medical attention and special treatment, if necessary**  
Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### **Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### **Specific hazards arising from the chemical**

Fire hazard : Extremely flammable liquid and vapor.  
Explosion hazard : No direct explosion hazard.

### **Special protective equipment and precautions for fire-fighters**

Firefighting instructions :  
Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting :

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

General measures :

Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

### **For non-emergency personnel**

Protective equipment :

Wear recommended personal protective equipment.

Emergency procedures :

Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

**For emergency responders**

Protective equipment :

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures :

Evacuate unnecessary personnel. Stop leak if safe to do so.

**Environmental precautions**

Avoid release to the environment.

**Methods and material for containment and cleaning up**

For containment :

Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up :

Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information :

Dispose of materials or solid residues at an authorized site.

**Reference to other sections**

For further information refer to section 13.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Additional hazards when processed :

Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling :

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures :

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**Conditions for safe storage, including any incompatibilities**

Technical measures :

Ground/bond container and receiving equipment.

Storage conditions :

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Packaging materials :

Always store product in container of same material as original container.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**LINALYL ACETATE (115-95-7)**

Not applicable

**CASHMERAN (33704-61-9)**

Not applicable

**COUMARIN (91-64-5)**

Not applicable

**2-ethyl-3-hydroxypyran-4-one (4940-11-8)**

Not applicable

**ETHYL VANILLIN (121-32-4)**

Not applicable

**1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super) (54464-57-2)**

Not applicable

**1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8,-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)**

Not applicable

**VANILLIN (121-33-5)**

Not applicable

**Appropriate engineering controls**

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

**Individual protection measures/Personal protective equipment**

**Personal protective equipment:**

Wear recommended personal protective equipment.

**Hand protection:**

Protective gloves

**Eye protection:**

Safety glasses

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

**Personal protective equipment symbol(s):**



**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

Physical state	Liquid
Color	No data available
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	> 100 (0 – 0) °C

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Relative evaporation rate (butyl acetate=1)	No data available
Flammability	Not applicable
Vapor pressure	No data available
Relative vapor density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
No data available Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available

**Other information**

No additional information available

**10. STABILITY AND REACTIVITY**

**Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

**Incompatible materials**

No additional information available

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Acute toxicity (oral) : No data available

Acute toxicity (dermal) : No data available

Acute toxicity (inhalation) : No data available

**CASHMERAN (33704-61-9)**

ATE US (oral)	2900 mg/kg body weight
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**COUMARIN (91-64-5)**

LD50 oral rat	293 mg/kg body weight (Rat, Male / female, Experimental value, Oral)
ATE US (oral)	293 mg/kg body weight

**2-ethyl-3-hydroxypyran-4-one (4940-11-8)**

LD50 oral rat	1150 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)
ATE US (oral)	1150 mg/kg body weight

**ETHYL VANILLIN (121-32-4)**

LD50 oral rat	> 3160 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	3000 mg/kg body weight

**1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8,-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)**

ATE US (oral)	1000 mg/kg body weight
ATE US (dermal)	7940 mg/kg body weight

**VANILLIN (121-33-5)**

LD50 oral rat	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	3300 mg/kg body weight
ATE US (dermal)	2600 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : No data available

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

**COUMARIN (91-64-5)**

IARC group 3 - Not classifiable

Reproductive toxicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration hazard : No data available

Viscosity, kinematic : No data available

Symptoms/effects after inhalation : None under normal conditions.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : None under normal conditions.

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Ecology - general

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**LINALYL ACETATE (115-95-7)**

LC50 - Fish [1]	11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus)
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EC50 - Crustacea [1]	15 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)

**COUMARIN (91-64-5)**

LC50 - Fish [1]	2.94 mg/l (96 h, Pisces, QSAR)
EC50 - Crustacea [1]	24.3 – 36.9 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

**ETHYL VANILLIN (121-32-4)**

LC50 - Fish [1]	87.6 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)
ErC50 algae	120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)

**1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8,-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)**

EC50 - Crustacea [1]	0.61 mg/l
NOEC chronic fish	0.035 mg/l

**VANILLIN (121-33-5)**

LC50 - Fish [1]	57 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

**Persistence and degradability**

**LINALYL ACETATE (115-95-7)**

Persistence and degradability	Readily biodegradable in water.
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**COUMARIN (91-64-5)**

Persistence and degradability	Readily biodegradable in water.
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**2-ethyl-3-hydroxypyran-4-one (4940-11-8)**

Persistence and degradability	Biodegradability in water: no data available.
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**ETHYL VANILLIN (121-32-4)**

Persistence and degradability	Readily biodegradable in water.
ThOD	1.81 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.529 (5 day(s), Literature study)

**VANILLIN (121-33-5)**

Persistence and degradability	Readily biodegradable in water.
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**Bioaccumulative potential**

**LINALYL ACETATE (115-95-7)**

Partition coefficient n-octanol/water (Log Pow)	3.93 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

**COUMARIN (91-64-5)**

Partition coefficient n-octanol/water (Log Pow)	1.39 (QSAR, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

**2-ethyl-3-hydroxypyran-4-one (4940-11-8)**

Bioaccumulative potential	No bioaccumulation data available.
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**ETHYL VANILLIN (121-32-4)**

Partition coefficient n-octanol/water (Log Pow)	1.58 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

**VANILLIN (121-33-5)**

Partition coefficient n-octanol/water (Log Pow)	1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

**Mobility in soil**

**LINALYL ACETATE (115-95-7)**

Ecology - soil	Adsorbs into the soil.
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**COUMARIN (91-64-5)**

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.63 (log Koc, QSAR)
Ecology - soil	Highly mobile in soil.

**ETHYL VANILLIN (121-32-4)**

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.092 (log Koc, Equivalent or similar to OECD 106, Experimental value)
Ecology - soil	Low potential for mobility in soil.

**VANILLIN (121-33-5)**

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.438 (log Koc, Experimental value)
Ecology - soil	Low potential for mobility in soil.

**Other adverse effects**

No additional information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Regional waste regulation :

Disposal must be done according to official regulations.

Waste treatment methods :

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations :

Disposal must be done according to official regulations.

Product/Packaging disposal recommendations :

Disposal must be done according to official regulations.

Additional information :

Flammable vapors may accumulate in the container. Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

**Department of Transportation (DOT)**

In accordance with DOT

Transport document description (DOT) : UN3082 Environmentally hazardous substances, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro-

2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super)), 9, III

UN-No. (DOT) : UN3082

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (Iso E Super)

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.

173 - An appropriate generic entry may be used for this material.

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No Limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No Limit

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Emergency Response Guide (ERG) Number : 171

Other information : No supplementary information available.

## 15. REGULATORY INFORMATION

### US Federal regulations

No additional information available

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

MUSK CONC. (GALAXOLIDE NEAT)	CAS-No. 1222-05-5	1 – 5%
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## 16. OTHER INFORMATION

Full text of hazard classes and H-statements:

H224 Extremely flammable liquid and vapor

H227 Combustible liquid

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H320 Causes eye irritation

**All statements, technical information and recommendations contained herein are based on tests and data which Natural Bulk Supplies believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.**