



SAFETY DATA SHEET

Issuing Date 08-April-2019
Version 2

REVISION DATE 03-JUNE-2021

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FOREST SOLID FRAGRANCE CONCENTRATE
Product Number: 13917
Product Use: Fragrance application for plastic
Restrictions: For Manufacturing use only
Manufactured by: **HYSO LLC**
430 Gotham Parkway, 2nd Fl.
Carlstadt, NJ 07072
Phone: 201-635-9555
Emergencies Only: 570-357-4332
Initial Date Issued: April 08, 2019

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitization	Category 1B
Chronic aquatic toxicity	Category 2

2.2 Label Elements

Contains: D-Limonene, 3-Cyclohexene-1-caroxaldehyde, 2,4-dimethyl-, 1,8cineole .alpha.-Pinene



Signal Word

Warning

Hazard Statements

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

EU Specific Hazard Statements

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P501 - Dispose of in accordance with local/regional/national/international regulations

2.3 Other Information

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Ethylene vinyl acetate copolymer	607-457-0	24937-78-8	<76%	Not Classified	01-2119462827-27-0000 01-2119471301-50-0000
Benzyl benzoate	204-402-9	120-51-4	10-<15%	Acute Tox. 5 (H313) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	05-2118514925-38-XXXX
d-Limonene	227-813-5	5989-27-5	1-<5%	Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	05-2118518125-50-XXXX
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	268-264-1	68039-49-6	0.1-<1%	Flam. Liq. 4 (H227) Acute Tox. 5 (H303) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)	05-2118738485-32-XXXX

1,8-Cineole	207-431-5	470-82-6	0.1- <1%	Acute Tox. 5 (H303) Flam. Liq. 3 (H226) Skin Irrit. 3 (H316) Skin Sens. 1B (H317)	05-2118518113-55-XXXX
alpha.-Pinene	201-291-9	80-56-8	0.1- <1%	Flam. Liq 3 (H226) Acute Tox. 4 (H302) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	05-2118492936-22-XXXX
Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8-hexamethyl-	214-946-9	1222-05-5	0.1- <1%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 3 (H316)	05-2118522479-35-XXXX
Camphene	201-234-8	79-92-5	0.1- <1%	Eye Irrit. 2A (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Sol. 2 (H228) Skin Sens.3 (H316)	01-2119446293-40-XXXX
Bicyclo(7.2.0)undec-4ene, 4,11,11-trimethyl-8- Methylene-,[(1R-(1R*,4E,9S*))]	201-743-6-1	87-44-5	0.1- <1%	Acute Tox. 1 (H304) Skin Irrit. 3 (H316) Skin Sens. 1B (H317)	01-2120745237-53-XXXX
Citral	226-394-6	5392-40-5	0.1- <1%	Acute Tox. 5 (H313) Eye Irrit. 2A (H319) Aquatic Acute 2 (H401) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	01-2119462829-23-XXXX
Beta Pinene	204-872-5	127-91-3	0.1- <1%	Flam.Liq. 4 (h226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	05-2118492696-22-XXXX
Terpinolene	209-578-0	586-62-9	0.1- <1%	Asp. Tox. 1 (H304) Acute Tox. 5 (H303) Aquatic Acute 1 (400) Aquatic Chronic 1 (H10) Flam. Liq. 4 (H227) Skin Irrit.3 (H316) Skin Sens. 1B (H317)	01-2119982325-32-XXXX
2,6-Di-tert-butyl-p-cresol	204-881-4	128-37-0	0.1- <1%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 3 (H316)	05-2118573312-46-XXXX
Linalool	201-134-4	78-70-6	0.1- <1%	Acute Tox. 5 (H303) Eye Irrit. 2A (H319) Aquatic Acute 3 (H402) Flam. Liq. 4 (H227) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	05-2118591731-36-XXXX
Linalyl acetate	204-116-4	115-95-7	0.1- <1%	Flam. Liq 4 (H227) Skin Irrit 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2A (H319) Aquatic Acute 3 (H402)	05-2118591909-19-XXXX

Myrcene	204-622-5	123-35-3	<0.1%	Flam/ Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	05-2118618636-XXXX
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*Under EU REACH regulations, monomers in Polyethylene copolymers are registered.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 First aid measures for different exposure routes

General advice	If symptoms persist, call a physician.
Eye contact	The product is an inert solid. Treat as for any foreign object in eye. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If symptoms persist, call a physician. Seek medical attention immediately. Move to fresh air in case of accidental inhalation of vapors. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
Ingestion	Do not induce vomiting. Drink plenty of water. Seek medical attention immediately. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Protection of first-aiders	Use personal protective equipment.

4.2 Most important symptoms/effects, acute and delayed

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	May cause sensitization of susceptible persons. Treat symptomatically.
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SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol-resistant foam.

5.2 Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.3 Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge Yes.

5.4 Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. Floors may be slippery as pellets are a slip hazard, use care to avoid falling.

6.2 Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further spillage if safe to do so. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

Other Information Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air. Use only non-sparking tools.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Advice on safe handling Wear personal protective equipment. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors. Avoid breathing dust. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

7.2 Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions****Incompatible Products**

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat.

None known based on information supplies

SECTION 8: EXPOSURE AND PERSONAL PROTECTION**8.1 Control parameters****Exposure Limits'**

Chemical name	European Union	The United Kingdom	France	Spain	Germany
D-Limonene 5989-27-5			TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	Via dermica* TWA: 30 ppm TWA: 168 mg/m ³	TWA: 5 ppm TWA: 28 mg/m ³ Ceiling / Peak: 20 ppm Ceiling / Peak: 112 mg/m ³ Skin
alpha.-Pinene 80-56-8			TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	TWA: 20 ppm TWA: 113 mg/m ³	
Camphene 79-92-5			TWA: 1000 mg/m ³ STEL: 1500 mg/m ³		
Citral 5392-40-5				Via dermica* TWA: 5 ppm	
Beta Pinene 127-91-3			TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	TWA: 20 ppm TWA: 113 mg/m ³	
Terpinolene 586-62-9			TWA: 1000 mg/m ³ STEL: 1500 mg/m ³		
Butylated hydroxytoluene 128-37-0		STEL: 30 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³ Ceiling/Peak: 40 mg/m ³ Skin
Myrcene 123-35-3			TWA: 1000 mg/m ³ STEL: 1500 mg/m ³		

Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
D-Limonene 5989-27-5				TWA: 25 ppm TWA: 140 mg/m ³ STEL: 50 ppm STEL: 280 mg/m ³	
alpha.-Pinene 80-56-8		TWA: 20 ppm			
Beta Pinene 127-91-3		TWA: 20 ppm			
Butylated hydroxytoluene 128-37-0		TWA: 2 mg/m ³		TWA: 10 mg/m ³ STEL: 20 mg/m ³	TWA: 10 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
D-Limonene 5989-27-5		STEL: 14 ppm STEL: 80 mg/m ³ TWA: 7 ppm TWA: 40 mg/m ³		TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³	
alpha.-Pinene 127-91-3				TWA: 25 ppm TWA: 140 mg/m ³ Skin STEL: 37.5 ppm STEL: 175 mg/m ³	
Citral 5392-40-5			STEL: 54 mg/m ³ TWA: 27 mg/m ³		
Beta Pinene 127-91-3				TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³	
Butylated hydroxytoluene 128-37-0	TWA: 10 mg/m ³	STEL: 40 mg/m ³ TWA: 10 mg/m ³			TWA: 10 mg/m ³ STEL: 30 mg/m ³
Myrcene 123-35-3				TWA: 40 ppm TWA: 275 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2 Exposure controls**Engineering Measures**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Tightly fitting safety goggles. Face-shield.

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hand/Skin Protection	Protective gloves and clothing if contact is likely with hot or molten material. Usual safety precautions while handling the product will provide adequate protection.
Hygiene measures	When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.
Environmental Exposure Controls	Do not allow material to contaminate ground water systems.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Physical State @20°C	Solid Pellet
Appearance	Transparent Green
Odor	Characteristic
Odor Threshold	No information available
pH	Not applicable
Melting point/range	80 - 120° C
Freezing Point	Not applicable
Boiling Point	Not applicable
Flash point	>94° C
Evaporation Rate VALUE	Not applicable
Flammability Limits in Air	No information available
Explosive properties	No information available
Oxidizing Properties	No information available
Vapor Pressure @20°C (mmHg)	Not applicable
Vapor Density	No information available
Specific Gravity	0.969
Water Solubility	Insoluble
Solubility	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition Temperature °C	230° C
Viscosity, dynamic	No information available
Molecular Weight	No information available
VOC Content	No information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information available

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Does not react under normal processing temperatures

10.4 Conditions to avoid

Heat, flames, dust-air mixtures, static generation

10.5 Incompatible materials

Avoid strong oxidizing materials

10.6 Hazardous decomposition products

Thermal decomposition will yield oxides of carbon and/or acetic acid and vinyl acetate

SECTION 11: TOXICOLOGY INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product Information

Inhalation	There is no data available for this product.
Eye contact	There is no data available for this product.
Skin contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Component Information

Toxicology data for the component

Chronic toxicity

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	OSHA	IARC	ACGIH	NTP
Myrcene 123-35-3		2B		

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated – Reasonably Anticipated to be a Human Carcinogen

Sensitization	No information available
Target Organ Effects	No information available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ecotoxicity effects Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
D-Limonene		LC50: 35 mg/L 96h LC50: 0.619 - 0.796 mg/L	
1,8-cineole		LC50: 95.4 - 109 mg/L	
Alpha.-Pinene		LC50: 0.28 mg/L	LC50: 41 mg/L
Camphene	EC50: 1000 mg/L	LC50: 150 mg/L LC50: 0.72 mg/L	EC50: 22 mg/L
Citral	EC50: 16 mg/L EC50: 19 mg/L	LC50: 4.6 - 10 mg/L	EC50: 7 mg/L
Butylated hydroxytoluene	EC50: 0.42 mg/L 72h EC50: 6 mg/L 72h	LC50: 5 mg/L 48h	
Linalool	EC50: 88.3 mg/L	LC50: 22 - 46 mg/L	EC50: 20 mg/L

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulation

No information available.

Chemical name	log Pow
Alpha.-Pinene	4.1
Citral	2.76
Butylated hydroxytoluene	4.17
Linalool	2.84 -3.1

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available

Chemical Name

D-Limonene
1.8 cineole
Citral
Butylated hydroxytoluene
Linalool
Linalyl acetate

PBT and vPvB assessment

The substance is not PBT / vPvB assessment does not apply
The substance is not PBT /vPvB
The substance is not PBT / vPvb
The substance is not PBT / vPvB
The substance is not PBT / vPvb
The substance is not PBT / vPvB

12.6 Other adverse effects

No information available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste from Residues / Unused Products

Dispose of in accordance with local regulations

Contaminated packaging

Empty containers should be taken to an approved waste Handling Site for recycling or disposal

Other information

According to the European waste catalogue, waste codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORTATION INFORMATION**IMDG/IMO**

Not regulated

ADR/RID

Not regulated

ICAO/IATA

Not regulated

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No information available

15.2 Chemical Safety Report

No information available

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor

H227 - Combustible liquid

H228 - Flammable solid

H302 - Harmful if swallowed

H303 - May be harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H312 - Harmful in contact with skin
H313 - May be harmful in contact with skin
H315 - Causes skin irritation
H316 - Causes mild skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H401 - Toxic to aquatic life
H402 - Harmful to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Revision Date: 03-June-2021
Revision Note: No Information Available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet