

SAFETY DATA SHEET

WHISPER LACE FRAGRANCE OIL

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Whisper Lace 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

GHS US classification

Flammable liquids

Category 4

H227 Combustible liquid

Skin corrosion/irritation

Category 2

H315 Causes skin irritation

Skin sensitization,

Category 1

H317 May cause an allergic skin reaction

Reproductive toxicity

Category 2

H361 Suspected of damaging fertility or the unborn child

Full text of H statements : see section 16

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) :

H227 - Combustible liquid

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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

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/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | Product identifier | % | GHS US classification |
|-----------------|---------------------|---------|---|
| BENZYL BENZOATE | (CAS-No.) 120-51-4 | 30 – 70 | Acute Tox. 4 (Oral), H302 |
| LIMONENE | (CAS-No.) 5989-27-5 | 1 – 5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 |

Note: The information contained within this document was prepared by technical personnel and is believed to be true and accurate to the best of our knowledge. However, no warranty, express or implied, is provided regarding merchantability, fitness for a particular purpose, performance, safety, suitability, stability, or other aspects of the product. This information is not comprehensive and does not cover all potential conditions of use, handling, storage, disposal, or other factors that may involve legal, environmental, safety, or performance considerations. Natural Bulk Supplies accepts no liability for the use of or reliance upon this information. Our technical personnel are available to address inquiries, but the customer bears ultimate responsibility for the safe handling and use of the product. No suggestions for use are made that would encourage the infringement of existing patents or the violation of any Federal, State, local, or foreign laws.

| | | | |
|--|----------------------|-------|---|
| PHENYL ETHYL ALCOHOL | (CAS-No.) 60-12-8 | 1 – 5 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 |
| ALDEHYDE C 16 | (CAS-No.) 77-83-8 | 1 – 5 | Skin Sens. 1B, H317 |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone | (CAS-No.) 54464-57-2 | 1 – 5 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 |
| 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 |
| HEXYL CINNAMAL | (CAS-No.) 101-86-0 | 1 – 5 | Skin Sens. 1B, H317 |
| GERANYL ACETATE | (CAS-No.) 105-87-3 | 1 – 5 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 |
| LINALOOL | (CAS-No.) 78-70-6 | 1 – 5 | Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 |
| p-Mentha-1,4-diene | (CAS-No.) 99-85-4 | < 0.5 | Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304 |

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 exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation :

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact :

Wash skin with plenty of water. Take off 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 :

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

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 : Combustible liquid.

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. No open flames, no sparks, and no smoking. 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. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 :

Keep in a cool, well-ventilated place away from heat.

Storage conditions :

Store in a well-ventilated place. Keep cool. Store locked up.

Packaging materials :

Store always product in container of same material as original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

BENZYL BENZOATE (120-51-4)

Not applicable

PHENYL ETHYL ALCOHOL (60-12-8)

Not applicable

D-LIMONENE (5989-27-5)

Not applicable

p-Mentha-1,4-diene (99-85-4)

Not applicable

LINALYL ACETATE (115-95-7)

Not applicable

Linalool (78-70-6)

Not applicable

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

Not applicable

HEXYL CINNAMIC ALDEHYDE (101-86-0)

Not applicable

GERANYL ACETATE (105-87-3)

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 |

Note: The information contained within this document was prepared by technical personnel and is believed to be true and accurate to the best of our knowledge. However, no warranty, express or implied, is provided regarding merchantability, fitness for a particular purpose, performance, safety, suitability, stability, or other aspects of the product. This information is not comprehensive and does not cover all potential conditions of use, handling, storage, disposal, or other factors that may involve legal, environmental, safety, or performance considerations. Natural Bulk Supplies accepts no liability for the use of or reliance upon this information. Our technical personnel are available to address inquiries, but the customer bears ultimate responsibility for the safe handling and use of the product. No suggestions for use are made that would encourage the infringement of existing patents or the violation of any Federal, State, local, or foreign laws.

| | |
|---|-------------------|
| 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 | ≈ 92.9 °C |
| 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 |
| 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

Possibility of hazardous reactions

No additional information available

Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. None under recommended storage and handling conditions (see section 7).

Incompatible materials

No additional information available

Hazardous decomposition products

No additional information available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

BENZYL BENZOATE (120-51-4)

| | |
|--------------------|---|
| LD50 oral rat | > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal) |
| ATE US (oral) | 1160 mg/kg body weight |

PHENYL ETHYL ALCOHOL (60-12-8)

| | |
|-----------------------|-----------------------------------|
| LD50 oral rat | > 1790 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | > 808 mg/kg (Rabbit, Dermal) |
| LC50 Inhalation - Rat | > 1.4 mg/l (4 h, Rat, Inhalation) |
| ATE US (oral) | 1610 mg/kg body weight |
| ATE US (dermal) | 2500 mg/kg body weight |

D-LIMONENE (5989-27-5)

| | |
|--------------------|---|
| LD50 oral rat | > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal) |

p-Mentha-1,4-diene (99-85-4)

| | |
|---------------|------------------------|
| ATE US (oral) | 3650 mg/kg body weight |
|---------------|------------------------|

Linalool (78-70-6)

| | |
|--------------------|---|
| LD50 oral rat | 2790 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 5610 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 7 day(s)) |
| ATE US (oral) | 2790 mg/kg body weight |
| ATE US (dermal) | 5610 mg/kg body weight |

HEXYL CINNAMIC ALDEHYDE (101-86-0)

| | |
|---------------|------------------------|
| ATE US (oral) | 3100 mg/kg body weight |
|---------------|------------------------|

GERANYL ACETATE (105-87-3)

| | |
|---------------|------------------------|
| LD50 oral rat | 6300 mg/kg (Rat, Oral) |
| ATE US (oral) | 6300 mg/kg body weight |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

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

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

D-LIMONENE (5989-27-5)

IARC group 3 - Not classifiable

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Linalool (78-70-6)

| | |
|--------------------------------------|---|
| NOAEL (dermal,rat/rabbit,90 days) | 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
|--------------------------------------|---|

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

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.

BENZYL BENZOATE (120-51-4)

| | |
|----------------------|---|
| LC50 - Fish [1] | 2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |

PHENYL ETHYL ALCOHOL (60-12-8)

| | |
|----------------------|--|
| LC50 - Fish [1] | 220 – 260 mg/l (96 h, Leuciscus idus) |
| EC50 - Crustacea [1] | 287.17 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna) |

D-LIMONENE (5989-27-5)

| | |
|----------------------|---|
| LC50 - Fish [1] | 720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | 0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |

LINALYL ACETATE (115-95-7)

| | |
|----------------------|---|
| LC50 - Fish [1] | 11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio) |
| EC50 - Crustacea [1] | 15 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |

| | |
|--|-------------------|
| | h, Daphnia magna) |
|--|-------------------|

Linalool (78-70-6)

| | |
|----------------------|---|
| LC50 - Fish [1] | 27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 algae | 156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |

GERANYL ACETATE (105-87-3)

| | |
|----------------------|---|
| LC50 - Fish [1] | 68.12 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Read-across) |
| EC50 - Crustacea [1] | 14.1 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |

Persistence and degradability

BENZYL BENZOATE (120-51-4)

| | |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
|-------------------------------|---------------------------------|

PHENYL ETHYL ALCOHOL (60-12-8)

| | |
|---------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.45 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.5 g O ₂ /g substance |
| ThOD | 2.6 g O ₂ /g substance |
| BOD (% of ThOD) | 0.558 |

D-LIMONENE (5989-27-5)

| | |
|-------------------------------|------------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| ThOD | 3.29 g O ₂ /g substance |

LINALYL ACETATE (115-95-7)

| | |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
|-------------------------------|---------------------------------|

Linalool (78-70-6)

| | |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
|-------------------------------|---------------------------------|

GERANYL ACETATE (105-87-3)

| | |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| ThOD | 2.6 g O ₂ /g substance |

Bioaccumulative potential

BENZYL BENZOATE (120-51-4)

| | |
|---|--|
| BCF - Fish [1] | 2.286 (BCFBAF v3.00, Pisces, QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | 3.97 (Experimental value, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

PHENYL ETHYL ALCOHOL (60-12-8)

| | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 1.38 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

D-LIMONENE (5989-27-5)

| | |
|---|--|
| BCF - Fish [1] | 864.8 – 1022 (Pisces, QSAR, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C) |

| | |
|---------------------------|---|
| Bioaccumulative potential | Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$). |
|---------------------------|---|

LINALYL ACETATE (115-95-7)

| | |
|--|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.93 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{Log Kow} < 4$). |

Linalool (78-70-6)

| | |
|--|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{Log Kow} < 4$). |

GERANYL ACETATE (105-87-3)

| | |
|--|---|
| BCF - Other aquatic organisms [1] | 1500 (Estimated value) |
| Partition coefficient n-octanol/water (Log Pow) | 4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method) |
| Bioaccumulative potential | Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$). |

Mobility in soil

BENZYL BENZOATE (120-51-4)

| | |
|--|--|
| Surface tension | 0.027 N/m (210 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil | Low potential for mobility in soil. |

D-LIMONENE (5989-27-5)

| | |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
|----------------|------------------------|

LINALYL ACETATE (115-95-7)

| | |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
|----------------|------------------------|

Linalool (78-70-6)

| | |
|-----------------|--|
| Surface tension | 8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension) |
| Ecology - soil | No (test)data on mobility of the substance available. |

GERANYL ACETATE (105-87-3)

| | |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated 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 :

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. (BENZYL BENZOATE), 9, III

UN-No.(DOT) : UN3082

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

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

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

16. OTHER INFORMATION

Full text of H-phrases:

H226 Flammable liquid and vapor

H227 Combustible liquid

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H320 Causes eye irritation

H361 Suspected of damaging fertility or the unborn child

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