1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifiers

Product Code: 1058
Product Name: FIR NEEDLE OIL
CAS No.: 8021-29-2
Index No.: N/A
CLP Reference No.: N/A
REACH Registration No.: 294-351-9
EC No.: 2905
FEMA No.: 294-351-9

1.2 Use

Use in Flavour / Food Application.

1.3 Company / Undertaking Identification

Ultra International B.V.
Malledijk 3H, 3208 LA Spijkenisse, (Loods 12-15), Netherlands
Tel.: +3161 6915330 Fax.: +91-120-4374000
E-mail: ultraintl.nl@gmail.com, www.ultrainternational.com

1.4 Emergency Telephone

+91-9810008844

2. HAZARD IDENTIFICATION

2.1 Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS classification]

<table>
<thead>
<tr>
<th>HAZARD CATEGORY</th>
<th>HAZARD STATEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquid 3</td>
<td>H226 FLAMMABLE LIQUID AND VAPOUR</td>
</tr>
<tr>
<td>Aspiration Hazard 1</td>
<td>H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation 2</td>
<td>H316 CAUSES MILD SKIN IRRITATION</td>
</tr>
<tr>
<td>Skin sensitization 1</td>
<td>H317 MAY CAUSE AN ALLERGIC SKIN REACTION</td>
</tr>
<tr>
<td>Eye damage/Irritation 2A</td>
<td>H319 CAUSES SERIOUS EYE IRRITATION</td>
</tr>
<tr>
<td>Aquatic acute 1</td>
<td>H400 VERY TOXIC TO AQUATIC LIFE</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS</td>
</tr>
</tbody>
</table>

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10 FLAMMABLE.
R36 IRRITATING TO EYES.
R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R50/53 VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED

2.2 Label Elements

Label elements according to Regulation (EC) No. 1272/2008 (Substance)/Directive 67/548/EEC

Hazard Pictogram / Symbol:

GHS 02 GHS 07 GHS 08 GHS 09

Signal word / Indication(s) of danger:

Danger

Hazard Pictogram / Symbol:

Xn Harmful N Dangerous for the environment

Hazard Statements

H226 FLAMMABLE LIQUID AND VAPOUR
H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H317 MAY CAUSE AN ALLERGIC SKIN REACTION
H319 CAUSES SERIOUS EYE IRRITATION
H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
Precautionary Statements

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
P223 KEEP CONTAINER TIGHTLY CLOSED
P241 USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/..EQUIPMENT
P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOUR/SPRAY
P273 AVOID RELEASE TO THE ENVIRONMENT
P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
P303+351+338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO. CONTINUE RINSING
P331 DO NOT INDUCE VOMITTING
P333+313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P337+313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION
P405 STORE LOCKED UP
P501 DISPOSE OF CONTENTS/CONTAINER TO ... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION).

3. COMPOSITION / INFORMATION OF INGREDIENTS

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>Substance Description</th>
<th>Hazardous Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIR NEEDLE OIL</td>
<td>This product is 100% essential oil.</td>
<td>Delta-3-Carene(CAS Nº 13466-78-9); Xi,N;R38-43,R50/53;Amount:8-20%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alpha-Pinene(CAS Nº 80-55-8); Xi,N;R43,R50/53;Amount:10-20%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Beta-Pinene(CAS Nº 127-91-3); Xi,N;R43,R50/53;Amount:1.5 - 4%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Limonene(CAS Nº 77-05-4); Xi,N; R38-43,R50/53; Amount:4 - 9%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Camphene (CAS Nº 79-92-5); Xi,N; R36,R50/53; Amount:20 - 30%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>EC No.</th>
<th>Botanical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8021-29-2</td>
<td>294-351-9</td>
<td>Abies siberica Ledeb.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Abies sibirica oil</td>
</tr>
</tbody>
</table>

Synonyms: FIR NEEDLE OIL

CLP Reference No.: N/A

REACH Registration No.: N/A

4. FIRST AID MEASURES

4.1 Description of First Aid Measures
Eye Contact: Remove contact lenses if worn. Flush immediately with plenty of water.
Skin Contact: Remove contaminated clothing. Wash affected area with mild soap and water.
Inhalation: Remove affected person to fresh air. If discomfort persists, consult physician.
Swallowing: Seek immediate medical care.

4.2 Indication of any immediate medical attention and special treatment method
IF SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician.
IF ON SKIN (or hair): Remove take off immediately all contaminated clothing. Rinse skin with water /shower.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media
- Suitable: Carbon Dioxide; Dry Chemical; Universal Type Foam.
- Unsuitable: Water spray; others not established.

5.2 Special hazards arising from substance
Combustible liquid Possibility of development of hazardous gases or vapors in event of fire Following may develop: CO and CO2

5.3 Advice for firefighters
Do not stay in dangerous zone without self protective clothing and breathing apparatus Spray extinguishing media directly into base of fire Cool containers exposed to flame with water Prevent fire fighting water entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures
Wear personal protective clothing. Keep away unprotected individuals. Eliminate source of ignition. Keep area well ventilated and isolate the spill.

6.2 Environmental precautions
Prevent entry into drains, ground/surface water or sewerage system.

6.3 Methods and material for containment and cleaning up
Pick up with absorbents material (Sand) or with pump for large spills.

6.4 Reference to other sections
Refer to Section 7, 8 & 13
7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Measures to prevent fire
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Use explosion proof electrical/ ventilating/lighting/equipment etc.

Measures to prevent aerosols and dust generation
Ensure good ventilation at workplaces

Measures to protect the environment
Prevent entry into drains, ground/surface water or sewerage system.

General Occupational hygiene
Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe use, including any incompatibilities

Information on storage conditions
Should be stored in cool, dark, dry, well ventilated places in full, tightly sealed containers protected from light & source of ignition

Information on packing materials
Should be packed in Aluminium, HDPE Food Grade Cans, MS Coated Drums, and GI Drums, Avoid long contact with Iron

Requirements for storage rooms and vessels
Should be stored in suitable containers (lines inside) e.g. MS Coated Drums, GI Drums etc. No special requirement for storage rooms.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

8.1 Appropriate engineering controls
Engineering controls should be used as the primary means to control exposures

8.2 Personal protective equipments

Skin protection Eye protection Body protection Respiratory protection
Safety gloves tight safety goggles Protective clothing Dust mask

8.3 Environmental exposure controls
Prevent entry into drains, ground/surface water or sewerage system.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
-physical state Liquid
-colour Colourless to slightly yellow
Odour Characteristic
Odour Threshold Medium
pH N/A
Melting Point °C N/A
Boiling Point °C N/A
Flash Point (Closed Cup) °C 43°C
Vapour Pressure N/A
Vapour Density NE
Specific Gravity /Relative Density 0.890 – 0.915 @20°C
Refractive Index 1.460 – 1.480 @20°C
Optical Rotation -45° to -30°
Surface tension N/A
Solubility
- Water Insoluble
- Alcohol 1:2 in 90% clear to slightly turbid
Viscosity Not estimated
Partition Coefficient Not estimated
Explosive Limits
- Lower Explosion Limit: N/A
- Upper Explosion Limit: N/A

Auto ignition Temperature: N/A
Flammability: Flammable
Granulometry: N/A
Oxidising Properties: N/A

10. STABILITY AND REACTIVITY

10.1 Reactivity
Not reactive, stable at room temperature.

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
Reactions with strong oxidizers

10.4 Conditions to avoid
No decomposition if stored and handled properly

10.5 Incompatible materials
Avoid strong acids, strong bases, and all oxidising agents

10.6 Hazardous decomposition products
No dangerous decomposition products expected by intended use

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity oral (LD50): 10.2 g/kg bw (Rat)
11.2 Acute toxicity inhalation: Not determined
11.3 Acute toxicity dermal (LD50): 3 g/kg bw (Rabbit)
11.4 Skin Irritation/Corrosion: Not determined
11.5 Respiratory sensitization: Not determined
11.6 Skin sensitization: Sensitizing
11.7 CMR Effects
- Carcinogenicity: No
- Mutagenicity: No
- Toxic to reproduction: No

11.8 Eye Irritation / Corrosion: Not determined

11.9 Exposure limits
There is a blanket recommendation of 10 mg/m³ for inspirable dusts or mists when limits have not otherwise been established.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
- PNEC Oral: Not determined
- NOAEL: Not determined
- EC50 (48hrs): Not determined
- LC50 (96hrs): Not determined

12.2 Persistence and degradability: Not determined

12.3 Mobility in soil: Not determined

12.4 Results of PBT and vPvB assessment: Not determined

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods
Product/packaging disposal
Handle in accordance with official provisions

Waste treatment options
Recycling is preferred to disposal or burning

Waste code: Waste designations according to EWC/AVV
- 15 02 02*: absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

13.2 Recommendations
Empty contaminated packing thoroughly as they may be recycled
Moistened solids to be disposed off adhering to necessary technical regulations after consulting concerned authorities
14. TRANSPORT INFORMATION

14.1 Land Transport (ADR/RID/GGVSE):
UN Number: 1272
DG Class: 3
Packing Group: III
Proper Shipping Name: Pine Oil
Classification Code: 3Y
Hazard Labels:

14.2 Sea Transport (IMDG-Code/GGVSee):
UN Number: 1272
DG Class: 3
Packing Group: III
Proper Shipping Name: Pine Oil
Marine Pollutant: Yes
Hazard Labels:

14.3 Air Transport (ICAO-IAT/DGR):
UN Number: 1272
DG Class: 3
Packing Group: III
Proper Shipping Name: Pine Oil

14.4 Special precautions for users
Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse. Prevent entry into drains, ground/surface water or sewerage system.

14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
N/A

14.6 Other Information
Custom Tariff Code: 3301 29 6000
EmS Code: -

15. REGULATORY INFORMATION

EU regulations:
The product has been classified and labelled according to criteria provided in Directive 67/548/EEC and 1272/2008/EC, and following the recommendations of EFFA (European Flavor and Fragrance Association).

Other Regulations: German Regulation (VwVws)
Water Hazard Class: WGK 2

16. OTHER INFORMATION

16.1 Changes to previous version
Changes applicable according to regulation (EC) No 1907/2006 (REACH)

16.2 Abbreviations and acronyms
GHS: Globally Harmonized System of Classification and labelling of Chemicals
CAS: Chemical abstract Service (division of American Chemical society)
CLP: Classification, Labelling and Packaging
LD50: Lethal concentration, 50 percent
EC50: Effective concentration, 50 percent
PNEC: Predicted No Effect Concentration
NOAEL: No Observed Adverse Effect Levels
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

Printed By: SAP Business One
16.4 Wording of relevant hazard statement and/or precautionary statements referred to in section 2 to 15

Hazard Codes

Xn  | HARMFUL
N   | DANGEROUS FOR THE ENVIRONMENT

Risk Phrases

R10 | FLAMMABLE.
R36 | IRRITATING TO EYES.
R43 | MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R50/53 | VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R65 | HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED

Safety Phrases

S24 | AVOID CONTACT WITH SKIN.
S26 | IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S37 | WEAR SUITABLE GLOVES.
S61 | AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.
S62 | IF SWALLOWED, DO NOT INDUCE VOMITING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Hazard Statements

H226 | FLAMMABLE LIQUID AND VAPOUR
H304 | MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H316 | CAUSES MILD SKIN IRRITATION
H317 | MAY CAUSE AN ALLERGIC SKIN REACTION
H319 | CAUSES SERIOUS EYE IRRITATION
H400 | VERY TOXIC TO AQUATIC LIFE
H410 | VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Precautionary Statements

P210 | KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING
P233 | KEEP CONTAINER TIGHTLY CLOSED
P241 | USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/LIGHTING/…/EQUIPMENT
P261 | AVOID BREATHING DUST/FUME/GAS/MIST/VAPOUR/SPRAY
P273 | AVOID RELEASE TO THE ENVIRONMENT
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P405 | STORE LOCKED UP
P501 | DISPOSE OF CONTENTS/CONTAINER TO … (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION).

16.5 Training advice appropriate for workers

N/A

16.6 Quality Declaration

The information contained herein is based on the present state of our knowledge. It characterizes the product with regards to the appropriate safety precaution. It does not represent a guarantee of the properties of the product.