### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 3/21/2023

### **SECTION 1: Identification** 1.1. Identification Product form Mixture 1 Product name Evergreen • 1.2. Recommended use and restrictions on use No additional information available 1.3. 1.4. Emergency telephone number : Chemtrec 1-800-424-9300 (ACCT# CCN725182) Emergency number SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS US classification** Flammable liquids, Category 4 Combustible liquid Skin sensitisation, Category 1 May cause an allergic skin reaction. 2.2. GHS Label elements, including precautionary statements **GHS US labelling** Hazard pictograms (GHS US) Signal word (GHS US) Warning : Hazard statements (GHS US) Combustible liquid 2 May cause an allergic skin reaction. Precautionary statements (GHS US) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. : Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use media other than water to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container to hazardous or special waste collection point, in accordance with

local, regional, national and/or international regulation.

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### 2.3. Other hazards which do not result in classification

#### No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

### Not applicable

3.2. Mixtures

Name	Product identifier	%	<b>GHS US classification</b>
DPG	CAS-No.: 25265-71-8	30-50	Acute Tox. 4 (Inhalation:dust,mist), H332
Unipine (Pine Oil)	CAS-No.: 8002-09-3	1-5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Coumarin	CAS-No.: 91-64-5	1-5	Acute Tox. 4 (Oral), H302 Aquatic Acute 3, H402
Linalool	CAS-No.: 78-70-6	1-5	Flam. Liq. 4, H227 Skin Sens. 1B, H317 Aquatic Acute 3, H402
Vertenex/PTBCHA	CAS-No.: 32210-23-4	1-5	Skin Sens. 1B, H317
Vanillin	CAS-No.: 121-33-5	1-5	Eye Irrit. 2, H319
Lilial	CAS-No.: 80-54-6	1-5	Acute Tox. 4 (Oral), H302 Aquatic Acute 2, H401

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

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
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 or a doctor if you feel unwell.	
4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects after skin contact	: May cause an allergic skin reaction.	
4.3. Immediate medical attention and	special treatment, if necessary	

Treat symptomatically.

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SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	g media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the chem	nical
Fire hazard Hazardous decomposition products in case of fire	: Combustible liquid. : Toxic fumes may be released.
5.3. Special protective equipment and prec	autions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measure	res
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eves. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.1.2. 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".

### 6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up	
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.
6.4. Reference to other sections	

For further information refer to section 13.

SECTION 7: Handling and store	age
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.

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SECTION 8: Exposure controls/personal protect	lion
8.1. Control parameters	
Evergreen	
No additional information available	
Unipine (Pine Oil) (8002-09-3)	
No additional information available	
Coumarin (91-64-5)	
No additional information available	
Vanillin (121-33-5)	
No additional information available	
Linalool (78-70-6)	
No additional information available	
Lilial (80-54-6)	
No additional information available	
Vertenex/PTBCHA (32210-23-4)	
No additional information available	
DPG (25265-71-8)	
No additional information available	
8.2. Appropriate engineering controls	
	good ventilation of the work station. lease to the environment.
8.3. Individual protection measures/Personal protective	ve 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 equip	oment



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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Mixture contains one or more component(s) which have the following colour(s):
	Colourless to light yellow Colourless to white White to light yellow On exposure to light:
	discolours White Colourless Light yellow to brown Light yellow to colourless Yellow to dark
	orange
Odour	: There may be no odour warning properties, odour is subjective and inadequate to warn of
	overexposure.
	Mixture contains one or more component(s) which have the following odour:
	Pine odour Pleasant odour Sweet odour Floral odour Characteristic odour Aromatic odour Fruity
	odour Almost odourless Alcohol odour
Odour threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 184 °F
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: No data available
Relative vapour 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
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

#### **10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

No additional information available

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### **10.6. Hazardous decomposition products**

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

11.1. Information on toxicologica	
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified
Acute toxicity (inhalation)	: Not classified
Unipine (Pine Oil) (8002-09-3)	
LD50 oral rat	3200 mg/kg (Rat, Oral)
LD50 dermal rabbit	5000 mg/kg (Rabbit, Dermal)
ATE US (oral)	3200 mg/kg bodyweight
ATE US (dermal)	5000 mg/kg bodyweight
Coumarin (91-64-5)	
LD50 oral rat	300 – 900 mg/kg (Rat)
ATE US (oral)	300 mg/kg bodyweight
Vanillin (121-33-5)	
LD50 oral rat	3300 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	3300 mg/kg bodyweight
Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value)
LD50 dermal rabbit	5610 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value
ATE US (oral)	2790 mg/kg bodyweight
ATE US (dermal)	5610 mg/kg bodyweight
Lilial (80-54-6)	
LD50 oral rat	1390 mg/kg (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	1390 mg/kg bodyweight
Vertenex/PTBCHA (32210-23-4)	
LD50 oral rat	3370 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
ATE US (oral)	3370 mg/kg bodyweight

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DPG (25265-71-8)	
LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value)
LD50 dermal rabbit	> 5010 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male/female, Experimental value)
LC50 Inhalation - Rat	2.34 mg/l (Equivalent or similar to OECD 403, Rat, Male/female, Experimental value)
ATE US (vapours)	2.34 mg/l/4h
ATE US (dust,mist)	2.34 mg/l/4h
Skin corrosion/irritation	: Not classified
Lilial (80-54-6)	
рН	7
Vertenex/PTBCHA (32210-23-4)	
рН	7 (0.009 %)
DPG (25265-71-8)	
рН	7 – 8 (5 %)
Serious eye damage/irritation	: Not classified
Lilial (80-54-6)	
рН	7
Vertenex/PTBCHA (32210-23-4)	
pН	7 (0.009 %)
DPG (25265-71-8)	
pН	7 – 8 (5 %)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Coumarin (91-64-5)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard Viscosity, kinematic	: Not classified : No data available
Lilial (80-54-6) Viscosity, kinematic	3.171 mm²/s
	0.1711/////
Vertenex/PTBCHA (32210-23-4)	$8.37 \text{ mm}^{2}$ /c /20 °C OECD 114: Viceosity of Liquide)
Viscosity, kinematic	8.37 mm <sup>2</sup> /s (20 °C, OECD 114: Viscosity of Liquids)
DPG (25265-71-8)	
Viscosity, kinematic	118 mm²/s (20 °C)
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

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SECTION 12: Ecological informati	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Coumarin (91-64-5)	
LC50 - Fish [1]	56 mg/l (96 h, Poecilia reticulata)
EC50 - Crustacea [1]	13.5 mg/l (48 h, Daphnia magna)
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)
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)
EC50 - Crustacea [1]	59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
ErC50 algae	156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value)
Lilial (80-54-6)	
LC50 - Fish [1]	2.04 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Flow-through system, Fres water, Experimental value)
EC50 - Crustacea [1]	10.7 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	29.155 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Experimental value)
Vertenex/PTBCHA (32210-23-4)	
LC50 - Fish [1]	8.6 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	5.3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	22 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
DPG (25265-71-8)	
LC50 - Other aquatic organisms [1]	3181 mg/l (Other, 48 h, Xenopus laevis, Fresh water, Experimental value)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Fresh wate Experimental value)

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tersistence and degradability         Readily biodegradable in water.           farillin (121-33-5)         rensilence and degradability           tersistence and degradability         Readily biodegradable in water.           tersistence and degradability         Readily biodegradable in water. <th>12.2. Persistence and degradability</th> <th></th>	12.2. Persistence and degradability	
amilian (121-33-5)         Readily biodegradable in water.           inalool (78-70-6)         resistence and degradability         Readily biodegradable in water.           inalool (78-70-6)         resistence and degradability         Readily biodegradable in water.           iral (80-54-6)         resistence and degradability         Readily biodegradable in water.           ferenex/PTBCHA (32210-23-4)         resistence and degradability         Readily biodegradable in water.           ferenex/PTBCHA (32210-23-4)         resistence and degradability         Readily biodegradable in water.           PG (25265-71-8)         resistence and degradability         Readily biodegradable in water.           PG (25265-71-8)         resistence and degradability         Readily biodegradable in water.           2.3. Bioaccumulative potential         Does not contain bioaccumulative component(s).           comarin (91-64-5)         CF - Fish [1]         <10 (72 h, Leuciscus idus)	Coumarin (91-64-5)	
ersistence and degradability Readily biodegradable in water. inalcol (78-70-6) ersistence and degradability Readily biodegradable in water. Hilla (80-54-6) ersistence and degradability Readily biodegradable in water. Ferenex/PTBCHA (32210-23-4) resistence and degradability Readily biodegradable in water. PFG (25265-71-8) ersistence and degradability Readily biodegradable in water. PFG (25265-71-8) ersistence and degradability Readily biodegradable in water. PFG (25265-71-8) ersistence and degradability Readily biodegradable in water. 2.3. Bioaccumulative potential Inpine (Pine Oil) (8002-09-3) isoaccumulative potential Does not contain bioaccumulative component(s). Doumarin (91-64-5) CF - Filsh [1] < 10 (72 h. Leuciscus idus) CF - Other aquatic organisms [1] 42 (24 h. Chlorella sp., Fresh weight) tarittion coefficient n-octanol/water (Log Pow) isoaccumulative potential Low potential for bioaccumulation (BCF < 500). Tarittion coefficient n-octanol/water (Log Pow) isoaccumulative potential Low potential for bioaccumulation (Log Kow < 4). Linalcol (78-70-6) tarittion coefficient n-octanol/water (Log Pow) isoaccumulative potential Low potential for bioaccumulation (Log Kow < 4). Linalcol (78-70-6) tarittion coefficient n-octanol/water (Log Pow) Las (Experimental value, CECD 107: Partition Coefficient (n-octanol/water). Shake Flask Method, 25 'C) isoaccumulative potential Low potential for bioaccumulation (Log Kow < 4). Linalcol (78-70-6) tarittion coefficient n-octanol/water) (Log Pow) 2.84 (Experimental value, CECD 107: Partition Coefficient (n-octanol/water), HPLC method, 24 (C) artition coefficient n-octanol/water), HPLC method, 24 (C)	Persistence and degradability	Readily biodegradable in water.
Instalod (78-70-6)           tersistance and degradability         Readily biodegradable in water.           illial (80-54-6)         rersistance and degradability         Readily biodegradable in water.           tersistance and degradability         Readily biodegradable in water.           tersistence and degradability         Readily biodegradable in water.           tiodecurnulative potential         Does not contain bioaccurnulative component(s). <td>Vanillin (121-33-5)</td> <td></td>	Vanillin (121-33-5)	
trisistence and degradability         Readily biodegradable in water.           tilial (80-54-6)         Readily biodegradable in water.           tensistence and degradability         Readily biodegradable in water.           fortenex/PTBCHA (32210-23-4)         Readily biodegradable in water.           tensistence and degradability         Readily biodegradable in water.           PPG (25265-71-8)         Readily biodegradable in water.           tensistence and degradability         Readily biodegradable in water.           2.3. Bioaccumulative potential         Readily biodegradable in water.           tensistence and degradability         Readily biodegradable in water.           2.3. Bioaccumulative potential         Does not contain bioaccumulative component(s).           tensistence and user of a statistic component (s).         Commarin (91-64-5)           CF - Fish [1]         < 10 (72 h, Leuciscus idus)         CF other aquatio organisms [1]         42 (24 h, Chlorella sp., Fresh weight)           tarition coefficient n-octanol/water (Log Pow)         1.39         Componential         Componential           tarition coefficient n-octanol/water (Log Pow)         1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)           tioaccumulative potential         Low potential for bioaccumulation (Log Kow < 4).         Componential           tarition coefficient n-octanol/wa	Persistence and degradability	Readily biodegradable in water.
Iilal (80-54-6)         tersistence and degradability       Readily biodegradabile in water.         fertenex/PTBCHA (32210-23-4)         tersistence and degradability       Readily biodegradabile in water.         PPG (25265-71-8)         tersistence and degradability       Readily biodegradabile in water.         2.3. Eloaccumulative potential         Inlpine (Pine Oil) (8002-09-3)         ioaccumulative potential         Does not contain bioaccumulative component(s).         Scoumarin (91-64-5)         CF - Fish [1]       < 10 (72 h, Leuciscus idus)	Linalool (78-70-6)	
tersistence and degradability         Readily biodegradable in water.           tersistence and degradability         Readily biodegradable in water.           DPG (25265-71-8)         Readily biodegradable in water.           tersistence and degradability         Readily biodegradable in water.           2.3. Bioaccumulative potential         Does not contain bioaccumulative component(s).           Impire (Pine Oil) (8002-09-3)         Does not contain bioaccumulative component(s).           ioaccumulative potential         Does not contain bioaccumulative component(s).           Commarin (91-64-5)         CF - Fish (1)         < 10 (72 h, Leuciscus idus)           CF - Fish (1)         < 10 (72 h, Leuciscus idus)         CF - Other aquatic organisms [1]         42 (24 h, Chlorella sp., Fresh weight)           tartition coefficient n-octanol/water (Log Pow)         1.39         Componential         Low potential for bioaccumulation (BCF < 500).           transition coefficient n-octanol/water (Log Pow)         1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Fiask Method, 25 °C)           tioaccumulative potential         Low potential for bioaccumulation (Log Kow < 4).           tinalool (78-70-6)         2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)           tiaccumulative potential         Low potential for bioaccumulation (Log Kow < 4).           tillal (80-54-6)         2.84 (Experimental valu	Persistence and degradability	Readily biodegradable in water.
Pertensex/PTBCHA (32210-23-4)           Peresistence and degradability         Readily biodegradable in water.           PPG (25265-71-8)           Peresistence and degradability         Readily biodegradable in water.           2.3. Bloaccumulative potential         Readily biodegradable in water.           Priprine (Pine Oil) (8002-09-3)         Does not contain bioaccumulative component(s).           Coumarin (91-64-5)         Does not contain bioaccumulative component(s).           CF - Fish [1]         < 10 (72 h, Leuciscus idus)           CF - Other aquatic organisms [1]         42 (24 h, Chlorella sp., Fresh weight)           Variation coefficient n-octanol/water (Log Pow)         1.39           Lioaccumulative potential         Low potential for bioaccumulation (BCF < 500).           Partition coefficient n-octanol/water (Log Pow)         1.71 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)           Lioaccumulative potential         Low potential for bioaccumulation (Log Kow < 4).           Linalool (78-70-6)         2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)           Lioaccumulative potential         Low potential for bioaccumulation (Log Kow < 4).           Linalool (78-70-6)         2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)           Lioaccumulative potential         Low potential for bioaccumulation (Log Kow < 4).      <	Lilial (80-54-6)	
Presistence and degradability         Readily biodegradable in water.           PPG (25265-71-8)         Readily biodegradable in water.           Presistence and degradability         Readily biodegradable in water.           2.3. Bioaccumulative potential         Presistence and degradability         Readily biodegradable in water.           2.3. Bioaccumulative potential         Does not contain bioaccumulative component(s).           Formulative potential         Does not contain bioaccumulative component(s).           Commarin (91-64-5)         <10 (72 h, Leuciscus idus)           CF - Fish [1]         <10 (72 h, Leuciscus idus)           CF - Other aquatic organisms [1]         42 (24 h, Chloreila sp., Fresh weight)           tartition coefficient n-octanol/water (Log Pow)         1.39           tioaccumulative potential         Low potential for bioaccumulation (BCF < 500).           tartition coefficient n-octanol/water (Log Pow)         1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)           tioaccumulative potential         Low potential for bioaccumulation (Log Kow < 4).           tiala (80-54-6)         Low potential for bioaccumulation (Log Kow < 4).           till (80-54-6)         4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)           till (80-54-6)         Potential for bioaccumulation (Log Kow < 5).           <	Persistence and degradability	Readily biodegradable in water.
PPG (25265-71-8)         PPG (25265-71-8)         Versistence and degradability         Readily biodegradable in water.         2.3. Bioaccumulative potential         Inipine (Pine Oil) (8002-09-3)         sidoaccumulative potential         Does not contain bioaccumulative component(s).         Soumarin (91-64-5)         CCF - Fish [1]       < 10 (72 h, Leuciscus idus)	Vertenex/PTBCHA (32210-23-4)	
errsistence and degradability       Readily biodegradable in water.         2.3. Bioaccumulative potential         Inipine (Pine Oil) (8002-09-3)         iioaccumulative potential       Does not contain bioaccumulative component(§).         Soumarin (91-64-5)       Executive potential         CF - Fish [1]       < 10 (72 h, Leuciscus idus)	Persistence and degradability	Readily biodegradable in water.
2.3. Bioaccumulative potential         Inipine (Pine Oil) (8002-09-3)         iioaccumulative potential       Does not contain bioaccumulative component(s).         Coumarin (91-64-5)         CCF - Fish [1]       < 10 (72 h, Leuciscus idus)	DPG (25265-71-8)	
Inipine (Pine Oil) (8002-09-3)         iioaccumulative potential       Does not contain bioaccumulative component(s).         coumarin (91-64-5)       Coumarin (91-64-5)         CCF - Fish [1]       < 10 (72 h, Leuciscus idus)	Persistence and degradability	Readily biodegradable in water.
ioaccumulative potential       Does not contain bioaccumulative component(§).         iCF - Fish [1]       < 10 (72 h, Leuciscus idus)	12.3. Bioaccumulative potential	
Coumarin (91-64-5)         ICF - Fish [1]       < 10 (72 h, Leuciscus idus)	Unipine (Pine Oil) (8002-09-3)	
CF - Fish [1]       < 10 (72 h, Leuciscus idus)	Bioaccumulative potential	Does not contain bioaccumulative component(s).
ACF - Other aquatic organisms [1]       42 (24 h, Chlorella sp., Fresh weight)         Arritition coefficient n-octanol/water (Log Pow)       1.39         Bioaccumulative potential       Low potential for bioaccumulation (BCF < 500).	Coumarin (91-64-5)	
Partition coefficient n-octanol/water (Log Pow)       1.39         Low potential       Low potential for bioaccumulation (BCF < 500).	BCF - Fish [1]	< 10 (72 h, Leuciscus idus)
iioaccumulative potential       Low potential for bioaccumulation (BCF < 500).	BCF - Other aquatic organisms [1]	42 (24 h, Chlorella sp., Fresh weight)
Yanillin (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).	Partition coefficient n-octanol/water (Log Pow)	1.39
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).	Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Method, 25 °C)         bioaccumulative potential         Low potential for bioaccumulation (Log Kow < 4).	Vanillin (121-33-5)	
inalool (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 (Log Kow < 4).	Partition coefficient n-octanol/water (Log Pow)	
Partition coefficient n-octanol/water (Log Pow)       2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)         Low potential       Low potential for bioaccumulation (Log Kow < 4).	Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Low potential     Low potential for bioaccumulation (Log Kow < 4).	Linalool (78-70-6)	
ilial (80-54-6)         Partition coefficient n-octanol/water (Log Pow)         4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)         bioaccumulative potential         Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).         Vertenex/PTBCHA (32210-23-4)	Partition coefficient n-octanol/water (Log Pow)	2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Partition coefficient n-octanol/water (Log Pow)       4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24         °C)       °C)         Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).         Vertenex/PTBCHA (32210-23-4)	Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
°C)         bioaccumulative potential         Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).         Vertenex/PTBCHA (32210-23-4)	Lilial (80-54-6)	
/ertenex/PTBCHA (32210-23-4)	Partition coefficient n-octanol/water (Log Pow)	
	Bioaccumulative potential	Potential for bioaccumulation ( $4 \ge Log$ Kow $\le 5$ ).
CF - Fish [1]       234 – 334.6 l/kg (BCFBAF v3.01, QSAR, Fresh weight)	Vertenex/PTBCHA (32210-23-4)	
	BCF - Fish [1]	234 – 334.6 l/kg (BCFBAF v3.01, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow) 4.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)	Partition coefficient n-octanol/water (Log Pow)	
bioaccumulative potential Potential for bioaccumulation ( $4 \ge Log \text{ Kow} \le 5$ ).	Bioaccumulative potential	Potential for bioaccumulation ( $4 \ge Log \text{ Kow} \le 5$ ).

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DPG (25265-71-8)	
Bioaccumulative potential	Bioaccumulation: not applicable.
12.4. 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.
Linalool (78-70-6)	
Surface tension	8.3 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.
Lilial (80-54-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.11 (log Koc, PCKOCWIN v1.66, Calculated value)
Ecology - soil	Low potential for mobility in soil.
Vertenex/PTBCHA (32210-23-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.51 – 3.66 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Low potential for mobility in soil.
DPG (25265-71-8)	
Surface tension	71.4 mN/m (22 °C, 1.01 g/l)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	

### 14.1. UN number

Not regulated for transport

14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG)	: Not applicable : Not applicable	
Proper Shipping Name (IMDG)	Not applicable	

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Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT No data available	
<b>TDG</b> No data available	
IMDG No data available	
IATA No data available	
14.7. Transport in bulk according to A	Annex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory informat	ion
15.1. US Endoral regulations	

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Unipine (Pine Oil)	8002-09-3	Present	Active	
Coumarin	91-64-5	Present	Active	
Vanillin	121-33-5	Present	Active	
Linalool	78-70-6	Present	Active	

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Name	CAS-No.	Listing	Commercial status	Flags
Lilial	80-54-6	Present	Active	
Vertenex/PTBCHA	32210-23-4	Present	Active	
DPG	25265-71-8	Present	Active	

### 15.2. International regulations

### CANADA

### Unipine (Pine Oil) (8002-09-3)

Listed on the Canadian DSL (Domestic Substances List)

#### Coumarin (91-64-5)

Listed on the Canadian DSL (Domestic Substances List)

### Vanillin (121-33-5)

Listed on the Canadian DSL (Domestic Substances List)

### Linalool (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Lilial (80-54-6)

Listed on the Canadian DSL (Domestic Substances List)

### Vertenex/PTBCHA (32210-23-4)

Listed on the Canadian DSL (Domestic Substances List)

### DPG (25265-71-8)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

No additional information available

### National regulations

### Vanillin (121-33-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Linalool (78-70-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### DPG (25265-71-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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15.3. US State regulations		
Component	State or local regulations	
Unipine (Pine Oil)(8002-09-3)	U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List	
DPG(25265-71-8)	U.S Pennsylvania - RTK (Right to Know) List	

### **SECTION 16: Other information**

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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.