

# PEONY PASSION #EU54540F

## DECLARATION OF COMPLIANCE FOR PERFUME COMPOUNDS (DCP)

The adoption of the 7th amendement of the European Cosmetic Directive 76/768/EEC requires any cosmetic product containing any of 26 raw materials identified by the Scientific Committee on Cosmetic Products and Non-Food Products intended for Consumers as likely to cause a contact allergy when present above certain trigger levels to be declared on the package label.

ALLERGENS		
Name of common ingredients glossary	CAS-No.	Allergen % in product
Linalool	78-70-6	6.33158
d-Limonene	5989-27-5	1.56456
Benzyl benzoate	120-51-4	0.11
Citronellol	106-22-9	16.3
.alpha.-Hexyl cinnamic aldehyde	101-86-0	2.47
Eugenol	97-53-0	0.984
Citral	5392-40-5	0.59
Geraniol	106-24-1	4.4655
Benzyl salicylate	118-58-1	1.64

# CERTIFICATE OF CONFORMITY OF FRAGRANCE MIXTURES WITH IFRA STANDARDS

This certificate assesses the conformity of the fragrance mixture with IFRA Standards and provides restrictions for use as necessary. It is based only on those materials subject to IFRA Standards for the toxicity endpoint(s) described in each Standard.

This Certificate does therefore not replace a comprehensive safety assessment of the fragrance mixture.

**CERTIFYING PARTY:**

**CERTIFICATE DELIVERED TO:**

**SCOPE OF THE CERTIFICATE:**

**Product: PEONY PASSION #EU54540F**

**Compulsory information:**

We certify that the above mixture is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), up to and including the 51 Amendment to the IFRA Code of Practice (published June, 2023) provided it is used in the following class(es) at a maximum concentration level of:

IFRA Category(ies) [see Table 10 in Guidance for the use of IFRA Standards for details]	Level of use (%)*	Product application
Category 1	0 %	Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.) Children's toys
Category 2	0.34848485 %	Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deocologne, etc.) Body sprays (including body mist)
Category 3	6.96969697 %	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer Facial make up and foundation Make-up remover for face and eyes Nose pore strips Wipes or refreshing tissues for face, neck, hands, body

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		Body and face paint (for children and adults) Facial masks for face and around the eyes
Category 4	6.51515152 %	Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, etc.), aftershaves of all types (except creams and balms) Fragranced bracelets Ingredients of perfume kits and fragrance mixtures for cosmetic kits Scent pads, foil packs Scent strips for hydroalcoholic products
Category 5A	1.66666667 %	Body creams, oils, lotions of all types Foot care products (creams and powders) Insect repellent (intended to be applied to the skin) All powders and talc (excluding baby powders and talc)
Category 5B	1.66666667 %	Facial toner Facial moisturizers and creams (including care products for beard and mustache)
Category 5C	1.66666667 %	Hand cream Nail care products including cuticle creams, nail lacquer remover, etc. Hand sanitizers
Category 5D	1.66666667 %	Baby cream/lotion, baby oil, baby powders and talc
Category 6	0 %	Toothpaste Mouthwash, including breath sprays Toothpowder, strips, mouthwash tablets
Category 7A	13.33333333 %	Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes
Category 7B	13.33333333 %	Hair sprays of all types (pumps, aerosol sprays, etc.) Hair styling aids non sprays (mousse, gels, leave-on conditioners) Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes Shampoo - Dry (waterless shampoo) Hair deodorizer, hair perfume*
Category 8	0.68181818 %	Intimate wipes Intimate deodorant spray Tampons Baby wipes Toilet paper (wet)
Category 9	12.72727273 %	Bar soap Shampoo of all type Cleanser for face (rinse-off) Conditioner (rinse-off) Liquid soap Body washes and shower gels of all types Baby wash, bath, shampoo Bath gels, foams, mousses, salts, oils and other products

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		<p>added to bathwater (such as bath bombs)</p> <p>Foot care products (feet are placed in a bath for soaking)</p> <p>Shaving creams of all types (stick, gels, foams, etc.)</p> <p>All depilatories (including facial) and waxes for mechanical hair removal</p> <p>Shampoos for pets</p>
Category 10A	24.63329974 %	<p>Hand wash laundry detergent (including concentrates)</p> <p>Laundry pre-treatment of all types (e.g.paste, sprays, sticks)</p> <p>Hand dishwashing detergent (including concentrates)</p> <p>Hard surface cleaners of all types (bathroom and kitchen cleansers,furniture polish, etc.)</p> <p>Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates</p> <p>Toilet seat wipes</p> <p>Fabric softeners of all types excluding fabric softener sheets</p> <p>Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics)</p> <p>Floor wax</p> <p>Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc.</p> <p>Ironing water (Odorized distilled water)</p> <p>Dry cleaning kits (involving manual application on the textile)</p>
Category 10B	45.45454545 %	<p>Animal sprays – sprays applied to animals of all types</p> <p>Air freshener sprays, manual, including aerosol and pump</p> <p>Aerosol/spray insecticides</p>
Category 11A	5.75 %	<p>Feminine hygiene conventional pads,liners, interlabial pads</p> <p>Baby diapers</p> <p>Incontinence pant, pad</p> <p>Toilet paper (dry)</p>
Category 11B	5.75 %	<p>Tights with moisturizers</p> <p>Scented socks, gloves</p> <p>Facial tissues (dry tissues)</p> <p>Napkins</p> <p>Pillow spray</p> <p>Paper towels</p> <p>Wheat bags</p> <p>Facial masks (paper/protective) e.g.surgical masks not used as medical device</p> <p>Fertilizers, solid (pellet or powder)</p>
Category 12	100 %	<p>Candles of all types (including encased)</p> <p>Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods)</p>

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Automated air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals, solid non aerosol car diffuser)  
 Air delivery systems  
 Cat litter  
 Cell phone cases  
 Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders)  
 Dry cleaning kits (placed in the dryer)  
 Dryer sheets and fabric softener sheets  
 Fuels  
 Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays  
 Joss sticks or incense sticks  
 Dishwash detergent and deodorizers – for machine wash  
 Olfactive board games  
 Paints  
 Plastic articles (excluding toys)  
 Scratch and sniff  
 Scent pack  
 Scent delivery system (using dry air technology)  
 Shoe polishes  
 Rim blocks (toilet)  
 Toilet gel  
 Scent beads

*\*Actual use level or maximum use level*

Information about presence and concentration of fragrance ingredients subject to IFRA Standards in the fragrance mixture (PEONY PASSION #EU54540F) is as follows:

Materials under the scope of IFRA Standards	CAS-No.	Recommendation from IFRA Standard:	Concentration (%) in fragrance mixture or finished product	Comment
2-Hexenal	6728-26-3 505-57-7 16635-54-4	Restricted	0.0044	
Allyl phenoxyacetate	7493-74-5 863306-60-9	Restricted	0.25	
Citral	106-26-3 141-27-5 5392-40-5	Restricted	0.5975	
Citronellol	106-22-9 1117-61-9 141-25-3 26489-01-0 6812-78-8 68916-43-8 7540-51-4	Restricted	16.3	

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Dimethylcyclohex-3-ene-1-carbaldehyde (mixed isomers)	27939-60-2 35145-02-9 36635-35-5 67801-65-4 68039-48-5 68039-49-6 68084-52-6 68737-61-1	Restricted	0.3288
Rose ketones	23696-85-7 23726-91-2 23726-92-3 23726-93-4 23726-94-5 24720-09-0 33673-71-1 35044-68-9 35087-49-1 39872-57-6 43052-87-5 57378-68-4 70266-48-7 71048-82-3 59739-63-8 87064-19-5	Restricted	0.66
Citronellyl acetate	150-84-5 67601-05-2 141-11-7	Restricted	0.4175
alpha-Hexyl cinnamic aldehyde	101-86-0	Restricted	2.47
Geraniol	106-24-1	Restricted	4.4655
Benzyl salicylate	118-58-1	Restricted	1.64
Benzyl benzoate	120-51-4	Restricted	0.11
Hexyl salicylate	6259-76-3	Restricted	0.0303
Methyl eugenol	93-15-2	Restricted	0.0012
Eugenol	97-53-0	Restricted	0.984
Cyclamen aldehyde	103-95-7	Restricted	0.0816
Limonene	138-86-3 7705-14-8 5989-27-5 5989-54-8	Specification	1.56906
Linalool	126-90-9 126-91-0 78-70-6	Specification	6.33158

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# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 2/24/2025 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: PEONY PASSION #EU54540F
UFI	: NQUX-A8CQ-300N-94ER
Product code	: EU54540F
Type of product	: Perfumes, fragrances
Product group	: Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category	: Professional use, Industrial use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Perfumes, fragrances
Function or use category	: Odour agents

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411
Full text of H- and EUH-statements: see section 16	

##### Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

# PEONY PASSION #EU54540F

## Safety Data Sheet

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Contains	: Citronellol Pure; Linalool; Geraniol; Nerol; citral; Hexyl cinnamic aldehyde; Orange oil ; Benzyl salicylate; Geranium oil Egyptian ; Nopyl acetate; Aldehyde C-16; Clove bud oil (Eugenia spp.); Methyl isoeugenol; Geranyl acetate; delta-Damascone; Neryl acetate; Guaiacwood acetate; Triplal (Vertocitral); Acetate PA
Hazard statements (CLP)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water.
Extra phrases	: For professional users only.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Citronellol Pure	CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23	8.09 – 16.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Phenylethyl alcohol	CAS-No.: 60-12-8 EC-No.: 200-456-2 REACH-no: 01-2119963921-31	7.4 – 14.8	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Sandela	CAS-No.: 66068-84-6 EC-No.: 266-100-3	4 – 8	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	3.1 – 6.17	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Geraniol	CAS-No.: 106-24-1 EC-No.: 203-377-1 EC Index-No.: 603-241-00-5 REACH-no: 01-2119552430-49	1.5 – 4.2	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317



# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nerol	CAS-No.: 106-25-2 EC-No.: 203-378-7	0.9 – 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50	1.2 – 2.47	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Verdox	CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713-33	1 – 2.06	Aquatic Chronic 2, H411
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353-35	0.8 – 1.64	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442-31	0.8 – 1.64	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Geranium oil Egyptian	CAS-No.: 8000-46-2 EC-No.: 290-140-0 REACH-no: 01-2120769423-50	0.8 – 1.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Nopyl acetate	CAS-No.: 128-51-8 EC-No.: 204-891-9	0.6 – 1.23	Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Skin Sens. 1B, H317
Aldehyde C-16	CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770-28	0.6 – 1.23	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Clove bud oil (Eugenia spp.)	CAS-No.: 84961-50-2 EC-No.: 284-638-7	0.6 – 1.2	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Methyl isoeugenol	CAS-No.: 93-16-3 EC-No.: 202-224-6 REACH-no: 01-2120223689-47	0.4 – 0.82	Skin Sens. 1B, H317
Geranyl acetate	CAS-No.: 105-87-3 EC-No.: 203-341-5 REACH-no: 01-2119973480-35	0.4 – 0.82	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Ethyl acetoacetate substance with national workplace exposure limit(s) (RO)	CAS-No.: 141-97-9 EC-No.: 205-516-1	0.4 – 0.82	Not classified
delta-Damascone	CAS-No.: 57378-68-4 EC-No.: 260-709-8	0.3 – 0.66	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
citral substance with national workplace exposure limit(s) (BE, ES, IE, PL, PT)	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23	0.23 – 0.59	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Neryl acetate	CAS-No.: 141-12-8 EC-No.: 205-459-2	0.2 – 0.41	Skin Sens. 1B, H317
Allyl heptanoate	CAS-No.: 142-19-8 EC-No.: 205-527-1 REACH-no: 01-2119488961-23	0.2 – 0.41	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412
Rose oxide	CAS-No.: 16409-43-1 EC-No.: 240-457-5	0.2 – 0.41	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361
Allyl caproate	CAS-No.: 123-68-2 EC-No.: 204-642-4 REACH-no: 01-2119983573-26	0.2 – 0.41	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Guaiacwood acetate	CAS-No.: 61789-17-1 EC-No.: 309-448-4	0.2 – 0.41	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Irrit. 2, H315 Skin Sens. 1B, H317
Diphenyl oxide substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 101-84-8 EC-No.: 202-981-2 REACH-no: 01-2119472545-33	0.2 – 0.33	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1	0.2 – 0.3288	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Acetate PA	CAS-No.: 7493-74-5 EC-No.: 231-335-2	0.1 – 0.25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400
benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-33	0.1 – 0.11	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Alcohol C-10 substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, CH)	CAS-No.: 112-30-1 EC-No.: 203-956-9	0 – 0.007	Aquatic Chronic 3, H412
Aldehyde C-6 substance with national workplace exposure limit(s) (FI, PL)	CAS-No.: 66-25-1 EC-No.: 200-624-5	0 – 0.0018	Flam. Liq. 3, H226

# PEONY PASSION #EU54540F

## Safety Data Sheet

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Caproic acid substance with national workplace exposure limit(s) (BG, LT, LV)	CAS-No.: 142-62-1 EC-No.: 205-550-7	0 – 0.0001	Eye Dam. 1, H318 Skin Corr. 1C, H314

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. 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 immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.  
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. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/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.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

##### Switzerland

Storage class (LK) : LK 10/12 - Liquids

#### 7.3. Specific end use(s)

No additional information available

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

citral (5392-40-5)	
Belgium - Occupational Exposure Limits	
OEL TWA	32 mg/m <sup>3</sup> (vapor and aerosol)
	5 ppm (vapor and aerosol)
OEL chemical category	Skin
Ireland - Occupational Exposure Limits	
OEL TWA	5 ppm
OEL STEL	15 ppm (calculated)
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	27 mg/m <sup>3</sup>
NDSch (OEL STEL)	54 mg/m <sup>3</sup>
Portugal - Occupational Exposure Limits	
OEL TWA	5 ppm (inhalable fraction; vapor)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	5 ppm (inhalable fraction and vapor)
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer
Ethyl acetoacetate (141-97-9)	
Romania - Occupational Exposure Limits	
OEL TWA	100 mg/m <sup>3</sup>
	19 ppm
OEL STEL	200 mg/m <sup>3</sup>
	38 ppm
Diphenyl oxide (101-84-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	7 mg/m <sup>3</sup>
	1 ppm
IOEL STEL	14 mg/m <sup>3</sup>
	2 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	7 mg/m <sup>3</sup>
	1 ppm

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Diphenyl oxide (101-84-8)	
MAK (OEL STEL)	14 mg/m³
	2 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	7 mg/m³ (vapor)
	1 ppm (vapor)
OEL STEL	14 mg/m³ (vapor)
	2 ppm (vapor)
Bulgaria - Occupational Exposure Limits	
OEL TWA	7 mg/m³
	1 ppm
OEL STEL	14 mg/m³
	2 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	7 mg/m³
	1 ppm
KGVI (OEL STEL)	14 mg/m³
	2 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	7 mg/m³
	1 ppm
OEL STEL	14 mg/m³
	2 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	5 mg/m³
Denmark - Occupational Exposure Limits	
OEL TWA	7 mg/m³
	1 ppm
OEL STEL	14 mg/m³
	2 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	7 mg/m³
	1 ppm
OEL STEL	14 mg/m³
	2 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	7 mg/m³
	1 ppm
HTP (OEL STEL)	14 mg/m³
	2 ppm

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Diphenyl oxide (101-84-8)	
France - Occupational Exposure Limits	
VME (OEL TWA)	7 mg/m <sup>3</sup> (indicative limit)
	1 ppm (indicative limit)
VLE (OEL C/STEL)	14 mg/m <sup>3</sup> (indicative limit)
	2 ppm (indicative limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	7.1 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
	1 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-vapor)
Gibraltar - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
OEL STEL	14 mg/m <sup>3</sup>
	200 ppm
Greece - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
OEL STEL	14 mg/m <sup>3</sup>
	2 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	7 mg/m <sup>3</sup>
CK (OEL STEL)	14 mg/m <sup>3</sup>
Ireland - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup> (vapour)
	1 ppm (vapour)
OEL STEL	14 mg/m <sup>3</sup> (vapour)
	2 ppm (vapour)
Italy - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	7 mg/m <sup>3</sup>
	1 ppm
TPRV (OEL STEL)	14 mg/m <sup>3</sup>
	2 ppm

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Diphenyl oxide (101-84-8)	
Luxembourg - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
OEL STEL	14 mg/m <sup>3</sup>
	2 ppm
Malta - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
OEL STEL	14 mg/m <sup>3</sup>
	2 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	7 mg/m <sup>3</sup>
	1 ppm
TGG-15min (OEL STEL)	14 mg/m <sup>3</sup>
	2 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	7 mg/m <sup>3</sup>
NDSch (OEL STEL)	14 mg/m <sup>3</sup>
Portugal - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup> (indicative limit value)
	1 ppm (indicative limit value-vapor)
OEL STEL	14 mg/m <sup>3</sup> (indicative limit value)
	2 ppm (indicative limit value-vapor)
Romania - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
OEL STEL	14 mg/m <sup>3</sup>
	2 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	7 mg/m <sup>3</sup>
	1 ppm
NPHV (OEL C)	14 mg/m <sup>3</sup>
Slovenia - Occupational Exposure Limits	
OEL TWA	7 mg/m <sup>3</sup>
	1 ppm
OEL STEL	14 mg/m <sup>3</sup>
	2 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	7.1 mg/m <sup>3</sup> (vapor)



# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Diphenyl oxide (101-84-8)	
	1 ppm (vapor)
VLA-EC (OEL STEL)	14.2 mg/m <sup>3</sup> (vapor)
	2 ppm (vapor)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	7 mg/m <sup>3</sup>
	1 ppm
KGV (OEL STEL)	14 mg/m <sup>3</sup>
	2 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	7 mg/m <sup>3</sup>
	1 ppm
WEL STEL (OEL STEL)	14 mg/m <sup>3</sup>
	2 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	7 mg/m <sup>3</sup>
	1 ppm
Korttidsverdi (OEL STEL)	14 mg/m <sup>3</sup> (value from the regulation)
	2 ppm (value from the regulation)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	7 mg/m <sup>3</sup> (aerosol, vapour)
	1 ppm (aerosol, vapour)
KZGW (OEL STEL)	14 mg/m <sup>3</sup> (aerosol, vapour)
	2 ppm (aerosol, vapour)
OEL chemical category	Category 2 reproductive toxin
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 ppm (vapor)
ACGIH OEL STEL	2 ppm (vapor fraction)
Alcohol C-10 (112-30-1)	
Bulgaria - Occupational Exposure Limits	
OEL TWA	10 mg/m <sup>3</sup>
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	66 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m <sup>3</sup>
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	10 mg/m <sup>3</sup>

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Alcohol C-10 (112-30-1)	
Romania - Occupational Exposure Limits	
OEL TWA	100 mg/m <sup>3</sup>
	15 ppm
OEL STEL	200 mg/m <sup>3</sup>
	30 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	66 mg/m <sup>3</sup> (aerosol, vapour)
	10 ppm (aerosol, vapour)
KZGW (OEL STEL)	66 mg/m <sup>3</sup> (aerosol, vapour)
	10 ppm (aerosol, vapour)
Aldehyde C-6 (66-25-1)	
Finland - Occupational Exposure Limits	
HTP (OEL STEL)	42 mg/m <sup>3</sup>
	10 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	40 mg/m <sup>3</sup>
NDSch (OEL STEL)	80 mg/m <sup>3</sup>
Caproic acid (142-62-1)	
Bulgaria - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m <sup>3</sup>

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Conforms to standard.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 93 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.001197275 mm Hg (calculated value)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 25.2129 % (calculated value)(CARB VOC) (%w/w)

## 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

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

Citronellol Pure (106-22-9)	
LD50 oral rat	3450 mg/kg (Source: NLM_CIP)
LD50 oral	3450 mg/kg bodyweight
LD50 dermal rabbit	2650 mg/kg (Source: EPA_HP V)
LD50 dermal	2650 mg/kg bodyweight
Phenylethyl alcohol (60-12-8)	
LD50 oral rat	1609 mg/kg (Source: EPA_HP V)
LD50 oral	1610 mg/kg
LD50 dermal rabbit	2535 mg/kg (Source: EPA_HP V)
LC50 Inhalation - Rat	> 4.63 mg/l/4h
Sandela (66068-84-6)	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 5.27 mg/l/4h

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Linalool (78-70-6)</b>	
LD50 oral	2790 mg/kg
<b>Geraniol (106-24-1)</b>	
LD50 oral rat	3600 mg/kg (Source: NLM_CIP)
LD50 oral	3600 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)
<b>Nerol (106-25-2)</b>	
LD50 oral rat	4500 mg/kg (Source: NLM_CIP)
LD50 oral	4500 mg/kg bodyweight
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)
<b>citral (5392-40-5)</b>	
LD50 oral rat	4960 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	2250 mg/kg (Source: NLM_CIP)
<b>Hexyl cinnamic aldehyde (101-86-0)</b>	
LD50 oral rat	3100 mg/kg (Source: NLM_CIP)
LD50 oral	3100 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPVS)
LC50 Inhalation - Rat	> 5 mg/l/4h
<b>Verdox (88-41-5)</b>	
LD50 oral rat	4600 mg/kg (Source: NLM_CIP)
LD50 oral	4600 mg/kg
<b>Orange oil (8008-57-9)</b>	
LD50 oral rat	4400 mg/kg (Source: NZ_CCID)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
<b>Benzyl salicylate (118-58-1)</b>	
LD50 oral rat	2227 mg/kg (Source: NLM_CIP)
LD50 oral	2200 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
<b>Geranium oil Egyptian (8000-46-2)</b>	
LD50 oral	4811 mg/kg bodyweight
LD50 dermal	2500 mg/kg bodyweight
<b>Nopyl acetate (128-51-8)</b>	
LD50 oral rat	3 g/kg (Source: NLM_CIP)
LD50 oral	2940 mg/kg bodyweight
<b>Aldehyde C-16 (77-83-8)</b>	
LD50 oral rat	5470 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Clove bud oil (Eugenia spp.) (84961-50-2)</b>	
LD50 oral	2650 mg/kg
LD50 dermal rabbit	1200 mg/kg (Source: ECHA_API)
<b>Methyl isoeugenol (93-16-3)</b>	
LD50 oral rat	2500 mg/kg (Source: NLM_CIP)
LD50 oral	2500 mg/kg
<b>Geranyl acetate (105-87-3)</b>	
LD50 oral rat	6330 mg/kg (Source: NLM_CIP)
<b>Ethyl acetoacetate (141-97-9)</b>	
LD50 oral rat	3980 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5000 mg/kg (Source: NLM_CIP)
<b>delta-Damascone (57378-68-4)</b>	
LD50 oral	1400 mg/kg bodyweight
<b>Neryl acetate (141-12-8)</b>	
LD50 oral rat	> 2000 mg/kg (Source: ECHA)
LD50 dermal rabbit	> 6 ml/kg (Source: ECHA_API)
<b>Allyl heptanoate (142-19-8)</b>	
LD50 oral rat	500 mg/kg (Source: NLM_CIP)
LD50 oral	218 mg/kg
LD50 dermal rabbit	810 mg/kg (Source: ECHA_API)
LD50 dermal	810 mg/kg
<b>Rose oxide (16409-43-1)</b>	
LD50 oral rat	4300 mg/kg (Source: NLM_CIP)
LD50 oral	4300 mg/kg bodyweight
<b>Allyl caproate (123-68-2)</b>	
LD50 oral	218 mg/kg
LD50 dermal rabbit	820 mg/kg (Source: ECHA_API)
LD50 dermal	300 mg/kg
<b>Guaiaacwood acetate (61789-17-1)</b>	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)
<b>Diphenyl oxide (101-84-8)</b>	
LD50 oral rat	2450 mg/kg (Source: NLM_CIP)
LD50 oral	2830 mg/kg bodyweight
LD50 dermal rabbit	> 7940 mg/kg (Source: NLM_CIP)
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h
<b>Triplal (Vertocitral) (68039-49-6)</b>	
LD50 oral	2330 mg/kg

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Acetate PA (7493-74-5)	
LD50 oral rat	475 µl/kg (Source: NLM_CIP)
LD50 oral	500 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LD50 dermal	1100 mg/kg bodyweight
benzyl benzoate (120-51-4)	
LD50 oral rat	> 2000 mg/kg (Source: ECHA_API)
LD50 oral	1160 mg/kg bodyweight
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)
Alcohol C-10 (112-30-1)	
LD50 oral rat	4720 mg/kg (Source: NZ_CCID)
LD50 dermal rat	> 5000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 71 mg/l (Exposure time: 1 h Source: ECHA_API)
Aldehyde C-6 (66-25-1)	
LD50 oral rat	4890 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 8100 mg/kg (Source: ECHA_API)
Caproic acid (142-62-1)	
LD50 oral rat	3 g/kg (Source: NLM_HSDB)
LD50 oral	4000 mg/kg bodyweight
LD50 dermal rabbit	630 mg/kg (Source: NLM_HSDB)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
benzyl benzoate (120-51-4)	
Viscosity, kinematic	7.456 mm²/s

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No additional information available

### 11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

<b>Phenylethyl alcohol (60-12-8)</b>	
EC50 - Crustacea [1]	287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	490 mg/l (Species: Desmodesmus subspicatus)
<b>Linalool (78-70-6)</b>	
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
<b>Geraniol (106-24-1)</b>	
LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)
<b>Nerol (106-25-2)</b>	
LC50 - Fish [1]	20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
<b>citral (5392-40-5)</b>	
EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)
<b>Benzyl salicylate (118-58-1)</b>	
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
<b>Aldehyde C-16 (77-83-8)</b>	
LC50 - Fish [1]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)
<b>Ethyl acetoacetate (141-97-9)</b>	
LC50 - Fish [1]	298 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)
LC50 - Fish [2]	290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	646 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
<b>Allyl caproate (123-68-2)</b>	
LC50 - Fish [1]	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
<b>benzyl benzoate (120-51-4)</b>	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
NOEC (chronic)	0.168 mg/l
<b>Alcohol C-10 (112-30-1)</b>	
LC50 - Fish [1]	2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [1]	3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Aldehyde C-6 (66-25-1)</b>	
LC50 - Fish [1]	12 – 16.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)



# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Caproic acid (142-62-1)	
LC50 - Fish [1]	306 – 334 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)

### 12.2. Persistence and degradability

PEONY PASSION #EU54540F	
Persistence and degradability	Not established.
Citronellol Pure (106-22-9)	
Persistence and degradability	Rapidly degradable
Phenylethyl alcohol (60-12-8)	
Persistence and degradability	Rapidly degradable
Santala (66068-84-6)	
Persistence and degradability	Rapidly degradable
Linalool (78-70-6)	
Persistence and degradability	Rapidly degradable
Geraniol (106-24-1)	
Persistence and degradability	Rapidly degradable
Nerol (106-25-2)	
Persistence and degradability	Rapidly degradable
citral (5392-40-5)	
Persistence and degradability	Rapidly degradable
Hexyl cinnamic aldehyde (101-86-0)	
Persistence and degradability	Rapidly degradable
Verdox (88-41-5)	
Persistence and degradability	Rapidly degradable
Orange oil (8008-57-9)	
Persistence and degradability	Rapidly degradable
Benzyl salicylate (118-58-1)	
Persistence and degradability	Rapidly degradable
Geranium oil Egyptian (8000-46-2)	
Persistence and degradability	May cause long-term adverse effects in the environment.
Nopyl acetate (128-51-8)	
Persistence and degradability	Rapidly degradable
Aldehyde C-16 (77-83-8)	
Persistence and degradability	Rapidly degradable
Clove bud oil (Eugenia spp.) (84961-50-2)	
Persistence and degradability	Rapidly degradable

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Methyl isoeugenol (93-16-3)</b>	
Persistence and degradability	Rapidly degradable
<b>Geranyl acetate (105-87-3)</b>	
Persistence and degradability	Rapidly degradable
<b>Ethyl acetoacetate (141-97-9)</b>	
Persistence and degradability	Rapidly degradable
<b>delta-Damascone (57378-68-4)</b>	
Persistence and degradability	Rapidly degradable
<b>Neryl acetate (141-12-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Allyl heptanoate (142-19-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Rose oxide (16409-43-1)</b>	
Persistence and degradability	Rapidly degradable
<b>Allyl caproate (123-68-2)</b>	
Persistence and degradability	Rapidly degradable
<b>Guaiacwood acetate (61789-17-1)</b>	
Persistence and degradability	Rapidly degradable
<b>Diphenyl oxide (101-84-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Triplal (Vertocitral) (68039-49-6)</b>	
Persistence and degradability	Rapidly degradable
<b>Acetate PA (7493-74-5)</b>	
Persistence and degradability	Rapidly degradable
<b>benzyl benzoate (120-51-4)</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>Alcohol C-10 (112-30-1)</b>	
Persistence and degradability	Rapidly degradable
<b>Aldehyde C-6 (66-25-1)</b>	
Persistence and degradability	Rapidly degradable
<b>Caproic acid (142-62-1)</b>	
Persistence and degradability	Rapidly degradable
<b>12.3. Bioaccumulative potential</b>	
<b>PEONY PASSION #EU54540F</b>	
Bioaccumulative potential	Not established.

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Citronellol Pure (106-22-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.41 (at 25 °C)
<b>Phenylethyl alcohol (60-12-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.36 (at 20 °C (at pH 7)
<b>Geraniol (106-24-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.6 (at 25 °C)
<b>Nerol (106-25-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 30 °C (at pH 6.5)
<b>citral (5392-40-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
<b>Benzyl salicylate (118-58-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	4
<b>Geranium oil Egyptian (8000-46-2)</b>	
Bioaccumulative potential	Not established.
<b>Aldehyde C-16 (77-83-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C (cis isomer)
<b>Geranyl acetate (105-87-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.04
<b>Ethyl acetoacetate (141-97-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.8 (at 20 °C)
<b>Neryl acetate (141-12-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.98 (at 37 °C (at pH 7.2)
<b>Allyl heptanoate (142-19-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 20 °C (at pH 5.3)
<b>Rose oxide (16409-43-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.3 (at 23 °C (at pH 6.5)
<b>Allyl caproate (123-68-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.191 (at 20 °C (at pH 5)
<b>Diphenyl oxide (101-84-8)</b>	
BCF - Fish [1]	(470 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	4.21 (at 25 °C)
<b>Acetate PA (7493-74-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.33 (at 24.7 °C)
<b>benzyl benzoate (120-51-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
Bioaccumulative potential	Not established.

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Alcohol C-10 (112-30-1)	
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 25 °C (at pH 6)
Aldehyde C-6 (66-25-1)	
Partition coefficient n-octanol/water (Log Pow)	2.3 (at 25 °C (at pH 5)
Caproic acid (142-62-1)	
Partition coefficient n-octanol/water (Log Pow)	1.88

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecological information	: Avoid release to the environment.
HP Code	: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information





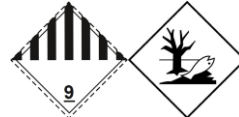
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SANDELA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SANDELA)	Environmentally hazardous substance, liquid, n.o.s. (SANDELA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SANDELA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SANDELA)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SANDELA), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SANDELA), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (SANDELA), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SANDELA), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SANDELA), 9, III

# PEONY PASSION #EU54540F

## Safety Data Sheet

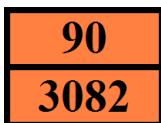
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M6  
Special provisions (ADR) : 274, 335, 375, 601  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Special packing provisions (ADR) : PP1  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1, TP29  
Tank code (ADR) : LGBV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13  
Hazard identification number (Kemler No.) : 90  
Orange plates :



Tunnel restriction code (ADR) : -  
EAC code : •3Z

#### Transport by sea

Special provisions (IMDG) : 274, 335, 969  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP01, P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP29  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A

#### Air transport

PCA Excepted quantities (IATA) : E1

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

### Inland waterway transport

Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

### Rail transport

Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Orange oil ; Aldehyde C-6	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	PEONY PASSION #EU54540F ; Citronellol Pure ; Phenylethyl alcohol ; Sandela ; Linalool ; Geraniol ; Nerol ; citral ; Hexyl cinnamic aldehyde ; Orange oil ; Benzyl salicylate ; Geranium oil Egyptian ; Nopyl acetate ; Aldehyde C-16 ; Clove bud oil (Eugenia spp.) ; Methyl isoeugenol ; Geranyl acetate ; delta- Damascone ; Neryl acetate ; Allyl heptanoate ; Rose oxide ; Allyl caproate ; Guaiacwood acetate ; Triplal (Vertocitral) ; Acetate PA ; benzyl benzoate ; Caproic acid	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	PEONY PASSION #EU54540F ; Sandela ; Hexyl cinnamic aldehyde ; Verdox ; Orange oil ; Benzyl salicylate ; Geranium oil Egyptian ; Nopyl acetate ; Aldehyde C-16 ; Geranyl acetate ; delta-Damascone ; Allyl heptanoate ; Allyl caproate ; Guaiacwood acetate ; Triplal (Vertocitral) ; Acetate PA ; benzyl benzoate ; Alcohol C-10	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
40.	Orange oil ; Aldehyde C- 6	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### VOC Directive (2004/42)

VOC content : 25.2129 % (calculated value)(CARB VOC) (%w/w)

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).  
Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).  
Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

#### Netherlands

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment  
SZW-lijst van kankerverwekkende stoffen : Sandela, Orange oil , Clove bud oil (Eugenia spp.), Guaiacwood acetate, Triplal (Vertocitral) are listed  
SZW-lijst van mutagene stoffen : Sandela, Orange oil , Clove bud oil (Eugenia spp.), Guaiacwood acetate, Triplal (Vertocitral) are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Class for fire hazard : Class III-1  
Store unit : 50 liter  
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2



# PEONY PASSION #EU54540F

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.