

Version: 3 (06/28/2024)

# **SAFETY DATA SHEET**

In accordance with UN GHS latest edition

**Product: HERBAL CLEMENTINE F49352** 

Version: 3

# Section 1. Identification of the substance or the mixture and of the supplier

#### 1.1 Product Identifier

Product identifier: HERBAL CLEMENTINE F49352(Contains:Carvone, Ethyl methylphenylglycidate, Linalyl

acetate, d-Limonene)

Other identifiers: None

1.2 Relevant identified uses of the substance of mixture and uses advised against

**Product uses:** Fragrances

1.3 Details of the supplier of the safety data sheet

Company name: Aromatic Fragrances International, Inc

Company address: 85 Wansley Drive SE

> Cartersville GA 30121 USA

Contact: Regulatory Affairs

E-Mail address: regulatory@afi-usa.com

770-334-3906 Company phone: 1.4 Emergency telephone number **Emergency phone:** 770-334-3906

#### Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Class and category of Skin Corrosion / Irritation Category 2 danger: Eye Damage / Irritation Category 2 Sensitization - Skin Category 1

> Hazardous to the Aquatic Environment - Acute Hazard Category 2 Hazardous to the Aquatic Environment - Long-term Hazard Category 2

H315, Causes skin irritation.

H317, May cause an allergic skin reaction. H319, Causes serious eye irritation.

H411, Toxic to aquatic life with long lasting effects.

2.2 Label elements

Signal word: Warning

**Hazard statements:** H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H411, Toxic to aquatic life with long lasting effects.

**Precautionary** statements:

P261, Avoid breathing vapour or dust.





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P264, Wash hands and other contacted skin 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/eye protection/face protection.

P302/352, IF ON SKIN: Wash with plenty of soap and water.

P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P333/313, If skin irritation or rash occurs: Get medical advice/attention.

P337/313, If eye irritation persists: Get medical advice/attention.

P362, Take off contaminated clothing and wash before reuse.

P391, Collect spillage.

P501, Dispose of contents/container to approved disposal site, in accordance with local

regulations.



Pictograms:

2.3 Other hazards

Other hazards: None

## Section 3. Composition / information on ingredients

#### 3.2 Mixtures

#### Contains:

Name	CAS	%	GHS Classification
d-Limonene	5989-27-5	5-<10%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1- Aquatic Acute 1-Aquatic Chronic 3;H226-H304-H315- H317-H400-H412
Ethyl methylphenylglycidate	77-83-8	1-<5%	Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2; H317-H411
Carvone	99-49-0	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2;H227-H303-H313-H317-H401
Linalyl acetate	115-95-7	1-<5%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2B-Skin Sens. 1B- Aquatic Acute 3;H227-H315-H317-H320-H402
Benzyl acetate	140-11-4	1-<5%	Acute Tox. 5-Aquatic Acute 2-Aquatic Chronic 3;H303-H401-H412
beta-lonone	14901-07-6	1-<5%	Aquatic Acute 2-Aquatic Chronic 2;H411
alpha-iso-Methylionone	127-51-5	1-<5%	Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2; H317-H411
2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde	68039-49-6	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H227-H303-H315-H317-H319-H411
alpha-Methylbenzyl acetate	93-92-5	1-<5%	Flam. Liq. 4-Aquatic Acute 3;H227-H402
gamma-Undecalactone	104-67-6	1-<5%	Aquatic Acute 3-Aquatic Chronic 3;H412





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Isohexenyl cyclohexenyl carboxaldehyde	37677-14-8	1-<5%	Skin Irrit. 2-Eye Dam. 1-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1;H315-H317-H318-H410
Allyl heptanoate	142-19-8	0.1-<1%	Flam. Liq. 4-Acute Tox. 3-Acute Tox. 3-Aquatic Acute 1-Aquatic Chronic 3;H227-H301-H311-H400-H412
Citral	5392-40-5	0.1-<1%	Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1-Aquatic Acute 2; H313-H315-H317-H319-H401
Menthol	89-78-1	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2B-Aquatic Acute 3;H227-H303-H315-H320-H402
1-Methyl-3-(4-methyl-3-pentenyl) cyclohex-3-ene-1-carbaldehyde	52474-60-9	0.1-<1%	Aquatic Acute 1-Aquatic Chronic 1;H410
Eugenol	97-53-0	0.1-<1%	Acute Tox. 5-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H303-H317-H319-H401
Eucalyptol	470-82-6	0.1-<1%	Flam. Liq. 3-Acute Tox. 5-Eye Irrit. 2B-Skin Sens. 1B-Aquatic Acute 3;H226-H303-H317-H320-H402
Allyl (cyclohexyloxy)acetate	68901-15-5	0.1-<1%	Acute Tox. 4-Aquatic Acute 1-Aquatic Chronic 1;H302-H410
Camphor	76-22-2	0.1-<1%	Flam. Sol. 2-Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Eye Dam. 1-STOT SE 2-Aquatic Acute 2-Aquatic Chronic 2; H228-H302-H315-H318-H332-H371-H411
delta-1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4	0.1-<1%	Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1A-Aquatic Acute 1-Aquatic Chronic 1;H302-H315-H317-H410
3-(5,5,6-Trimethylbicyclo[2.2.1] hept-2-yl)cyclohexan-1-ol	3407-42-9	0.1-<1%	Eye Irrit. 2A-Aquatic Acute 1-Aquatic Chronic 2;H319- H400-H411
d,l-Isomenthone	491-07-6	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H315-H317-H402
alpha-Terpineol	98-55-5	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A- Aquatic Acute 2;H227-H303-H315-H319-H401
Octanal	124-13-0	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 2-Aquatic Chronic 2;H226-H315-H319-H411
Methoxy dicyclopentadiene carboxaldehyde	86803-90-9	0.1-<1%	Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H303-H317-H411
Myrcene	123-35-3	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 2;H226-H304-H315-H319- H400-H411
Geraniol	106-24-1	0.1-<1%	Acute Tox. 5-Skin Irrit. 2-Eye Dam. 1-Skin Sens. 1- Aquatic Acute 3;H303-H315-H317-H318-H402
cis-Jasmone	488-10-8	0.1-<1%	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2B-Aquatic Acute 3; H303-H315-H320-H402
Cinnamaldehyde	104-55-2	<0.1%	Acute Tox. 5-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1A-Aquatic Acute 2-Aquatic Chronic 3;H303-H312-H315-H317-H319-H401-H412

# Substances with workplace exposure limits, not listed above:

Not Applicable

# Section 4. First-aid measures

# 4.1 Description of first aid measures

**Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

Eye exposure: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

**Skin exposure:** IF ON SKIN: Wash with plenty of soap and water.

**Ingestion:** Rinse mouth with water and obtain medical attention.

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

Causes skin irritation.





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May cause an allergic skin reaction.

Causes serious eye irritation.

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

None expected, see Section 4.1 for further information.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

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

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

#### 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Section 6. Accidental release measures

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

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

## 6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

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

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

#### 6.4 Reference to other sections:

Also refer to sections 8 and 13.

## Section 7. Handling and storage

#### 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation Do not eat, drink or smoke when using this product.

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

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

# 7.3 Specific end use(s):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.





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## Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

**8.2 Exposure Controls** 

**Eye / Skin Protection** 

Wear protective gloves/eye protection/face protection

#### **Respiratory Protection**

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

#### Section 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Appearance: Free flowing liquid without sediment

Odour:
Characteristic
Odour threshold:
Not determined
PH:
Not determined
Melting point / freezing point:
Not determined
Initial boiling point / range:
Not determined

Flash point: > 93 °C

Evaporation rate: Not determined Flammability (solid, gas): Not determined

Upper/lower flammability or explosive limits: Product does not present an explosion hazard

Not determined Vapour pressure: Vapour density: Not determined -0.0050 - 0.0050 Relative density: Solubility(ies): Not determined Partition coefficient: n-octanol/water: Not determined **Auto-ignition temperature:** Not determined **Decomposition temperature:** Not determined **Viscosity:** Not determined **Explosive properties:** Not expected Oxidising properties: Not expected





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9.2 Other information:

Refractive Index @ 20C: -0.0015 - 0.0015

Flash Point (Fahrenheit): > 200 °F

## Section 10. Stability and reactivity

#### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

#### 10.2 Chemical stability:

Good stability under normal storage conditions.

# 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

#### 10.4 Conditions to avoid:

Avoid extreme heat.

#### 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

# 10.6 Hazardous decomposition products:

Not expected.

### Section 11. Toxicological information

#### 11.1 Information on toxicological effects

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in UN GHS.

**Acute Toxicity:**Based on available data the classification criteria are not met.

Acute Toxicity Oral >5000
Acute Toxicity Dermal >5000

Acute Toxicity Inhalation Not Available

Skin corrosion/irritation:Skin Corrosion / Irritation Category 2Serious eye damage/irritation:Eye Damage / Irritation Category 2Respiratory or skin sensitisation:Sensitization - Skin Category 1

Germ cell mutagenicity:

Based on available data the classification criteria are not met.

Carcinogenicity:

Based on available data the classification criteria are not met.

Reproductive toxicity:

Based on available data the classification criteria are not met.

STOT-single exposure:

Based on available data the classification criteria are not met.

STOT-repeated exposure:

Based on available data the classification criteria are not met.

Aspiration hazard:

Based on available data the classification criteria are not met.

# Information about hazardous ingredients in the mixture



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Ingredient	CAS	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
2,4-Dimethyl-3- cyclohexen-1- carboxaldehyde	68039-49-6	3900	Not available	Not available	Not available
Allyl heptanoate	142-19-8	218	810	Not available	Not available
Benzyl acetate	140-11-4	2490	Not available	Not available	Not available
Carvone	99-49-0	Not available	3800	Not available	Not available

Refer to Sections 2 and 3 for additional information.

# **Section 12. Ecological information**

## 12.1 Toxicity:

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 Mobility in soil:Not available

12.5 Other adverse effects: Not available

# Section 13. Disposal considerations

# 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# **Section 14. Transport information**

	14.1 UN number:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class (es):	Sub Risk:	14.4. Packing Group:
UN Model Regulations	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isohexenyl cyclohexenyl carboxaldehyde, d-Limonene)	9	-	III
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isohexenyl cyclohexenyl carboxaldehyde, d-Limonene) MARINE POLLUTANT	9	-	III
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isohexenyl cyclohexenyl carboxaldehyde, d-Limonene)	9	-	III





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	SUBSTANCE, LIQUID, N.O.S.			
	(Isohexenyl cyclohexenyl			
	carboxaldehyde, d-Limonene)			

**14.5 Environmental hazards:** This is classified as an environmentally hazardous substance under the UN

Model Regulations. This is classified as a Marine Pollutant under the IMDG

Code.

14.6 Special precautions for user: None additional

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

# Section 15. Regulatory information

#### **Essential Oil Components:**

Name	CAS	%
ORANGE ESSENCE OIL	8008-57-9	5-<10%
LEMON OIL CALIFORNIA	8008-56-8	0.1-<1%

#### Components listed on California's SB312

Name	CAS	%
BENZYL BENZOATE	120-51-4	20-<50%
LINALOOL	78-70-6	1-<5%
METHYL IONONE GAMMA	127-51-5	1-<5%
CITRAL	5392-40-5	0.1-<1%
EUGENOL	97-53-0	0.1-<1%
GERANIOL 980	106-24-1	0.1-<1%
CINNAMIC ALDEHYDE	104-55-2	<0.1%

US Department Of Transport Bulk Packing -

Group:

Naturally-Occuring Materials on Prop65:

Name	CAS	%
Myrcene	123-35-3	

#### **Section 16. Other information**

**Concentration % Limits:** SCI 2=82.55% SCI 3=6.65% EDI 2A=53.86% SS 1=14.18% EH A2=21.

20% EH A3=2.11% EH C2=82.13% EH C3=7.94%

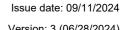
**Total Fractional Values:** SCI 2=1.21 SCI 3=15.05 EDI 2A=1.86 SS 1=7.05 EH A2=4.72 EH A3=47.

39 EH C2=1.22 EH C3=12.59

Key to revisions:

14.2. UN proper shipping name







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2.1 Classification of the substance or mixture

Concentration % Limits

SECTION 3: Composition/information on ingredients

**Total Fractional Values** 

# Key to abbreviations:

Abbreviation	Meaning	
Acute Tox. 3	Acute Toxicity - Oral Category 3	
Acute Tox. 3	Acute Toxicity - Dermal Category 3	
Acute Tox. 4	Acute Toxicity - Oral Category 4	
Acute Tox. 4	Acute Toxicity - Inhalation Category 4	
Acute Tox. 4	Acute Toxicity - Dermal Category 4	
Acute Tox. 5	Acute Toxicity - Oral Category 5	
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1	
Aquatic Acute 2	Hazardous to the Aquatic Environment - Acute Hazard Category 2	
Aquatic Acute 3	Hazardous to the Aquatic Environment - Acute Hazard Category 3	
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1	
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2	
Aquatic Chronic 3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3	
Asp. Tox 1	Aspiration Hazard Category 1	
Eye Dam. 1	Eye Damage / Irritation Category 1	
Eye Irrit. 2A	Eye Damage / Irritation Category 2A	
Eye Irrit. 2B	Eye Damage / Irritation Category 2B	
Flam. Liq. 3	Flammable Liquid, Hazard Category 3	
Flam. Liq. 4	Flammable Liquid, Hazard Category 4	
Flam. Sol. 2	Flammable Solid, Hazard Category 2	
H226	Flammable liquid and vapour.	
H227	Combustible liquid.	
H228	Flammable solid.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H303	May be harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H313	May be harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H320	Causes eye irritation.	
H332	Harmful if inhaled.	





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May cause damage to organs (organs, exposure route).  Very toxic to aquatic life.  Toxic to aquatic life.  Harmful to aquatic life with long lasting effects.  Toxic to aquatic life with long lasting effects.  Harmful to aquatic life with long lasting effects.  Harmful to aquatic life with long lasting effects.  Keep away from heat, sparks, open flames and hot surfaces No smoking.  Keep container tightly closed.  Ground/bond container and receiving equipment.  Use explosion-proof electrical, ventilating and lighting equipment.  Use only non-sparking tools.  Take precautionary measures against static discharge.  Do not breathe vapour or dust.  Avoid breathing vapour or dust.  Wash hands and other contacted skin thoroughly after handling.  Do not eat, drink or smoke when using this product.
Toxic to aquatic life.  Harmful to aquatic life.  Very toxic to aquatic life with long lasting effects.  Toxic to aquatic life with long lasting effects.  Harmful to aquatic life with long lasting effects.  Keep away from heat, sparks, open flames and hot surfaces No smoking.  Keep container tightly closed.  Ground/bond container and receiving equipment.  Use explosion-proof electrical, ventilating and lighting equipment.  Use only non-sparking tools.  Take precautionary measures against static discharge.  Do not breathe vapour or dust.  Avoid breathing vapour or dust.  Wash hands and other contacted skin thoroughly after handling.
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Do not breathe vapour or dust.  Avoid breathing vapour or dust.  Wash hands and other contacted skin thoroughly after handling.
Avoid breathing vapour or dust.  Wash hands and other contacted skin thoroughly after handling.
Wash hands and other contacted skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
· · · · · · · · · · · · · · · · · ·
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/eye protection/face protection.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.
Immediately call a POISON CENTER or doctor/physician.
Call a POISON CENTRE or doctor/physician if you feel unwell.
Rinse mouth.
Do not induce vomiting.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Remove/Take off immediately all contaminated clothing.
Take off contaminated clothing and wash before reuse.
Wash contaminated clothing before reuse.
In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
Collect spillage.
Store in a well-ventilated place. Keep cool.





Issue date: 09/11/2024 Version: 3 (06/28/2024)

# **SAFETY DATA SHEET**

In accordance with UN GHS latest edition

**Product:** HERBAL CLEMENTINE F49352

Version: 3

P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
STOT SE 2	Specific Target Organ Toxicity (Single Exposure) Category 2
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Sens. 1	Sensitization - Skin Category 1
Skin Sens. 1A	Sensitization - Skin Category 1A
Skin Sens. 1B	Sensitization - Skin Category 1B

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.