

# SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

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

### 1.1 Product Identifier

**Product identifier:** FRESH ORANGE TYPE BULK F21427(Contains:Ethyl methylphenylglycidate, Linalool, alpha-Amylcinnamaldehyde, d-Limonene)

**Other identifiers:** 1232131

### 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

**Company address:** 85 Wansley Drive SE  
Cartersville, GA 30121  
USA

**Contact:** Regulatory Affairs

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

**Company phone:** 770-334-3906

### 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 danger:** Flammable Liquid, Hazard Category 3  
Skin Corrosion / Irritation Category 2  
Eye Damage / Irritation Category 2  
Sensitization - Skin Category 1  
Aspiration Hazard Category 1  
Hazardous to the Aquatic Environment - Acute Hazard Category 1  
Hazardous to the Aquatic Environment - Long-term Hazard Category 3  
H226, Flammable liquid and vapour.  
H304, May be fatal if swallowed and enters airways.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H319, Causes serious eye irritation.  
H400, Very toxic to aquatic life.  
H412, Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

**Signal word:** Danger

**Hazard statements:** H226, Flammable liquid and vapour.

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## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H400, Very toxic to aquatic life.

H412, Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

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

P233, Keep container tightly closed.

P240, Ground/bond container and receiving equipment.

P241, Use explosion-proof electrical, ventilating and lighting equipment.

P242, Use only non-sparking tools.

P243, Take precautionary measures against static discharge.

P261, Avoid breathing vapour or dust.

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.

P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331, Do not induce vomiting.

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.

P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.

P391, Collect spillage.

P403/235, Store in a well-ventilated place. Keep cool.

P405, Store locked up.

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

**Pictograms:**



**2.3 Other hazards**

**Other hazards:** Hydrocarbon Concentration %: 64.4306%

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

### Section 3. Composition / information on ingredients

#### 3.2 Mixtures

##### Contains:

Name	CAS	%	GHS Classification
d-Limonene	5989-27-5	50-100%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 3;H226-H304-H315-H317-H400-H412
Linalool	78-70-6	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H227-H303-H315-H317-H319-H402
alpha-Amylcinnamaldehyde	122-40-7	1-<5%	Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2;H303-H316-H317-H411
Ethyl methylphenylglycidate	77-83-8	1-<5%	Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2; H317-H411
Ethylene brassylate	105-95-3	1-<5%	Aquatic Acute 2-Aquatic Chronic 3;H401-H412
Vanillin	121-33-5	1-<5%	Acute Tox. 5-Acute Tox. 5-Eye Irrit. 2A-Aquatic Acute 3; H303-H313-H319-H402
Dihydromyrcenol	18479-58-8	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-STOT SE 3-Aquatic Acute 3;H227-H303-H315-H319-H336-H402
Decanal	112-31-2	1-<5%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 3-Eye Irrit. 2A-Aquatic Acute 2-Aquatic Chronic 3;H227-H303-H316-H319-H401-H412
dl-Citronellol	106-22-9	1-<5%	Acute Tox. 5-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H303-H313-H315-H317-H319-H401
beta-Ionone	14901-07-6	1-<5%	Acute Tox. 5-Aquatic Acute 2-Aquatic Chronic 2;H303-H411
Citral	5392-40-5	1-<5%	Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1-Aquatic Acute 2; H315-H317-H319-H401
Myrcene	123-35-3	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 2;H226-H304-H315-H319-H400-H411
1,1-Dimethyl-2-phenylethyl acetate	151-05-3	1-<5%	Acute Tox. 5-Aquatic Acute 2;H303-H401
Ethyl vanillin	121-32-4	1-<5%	Acute Tox. 5-Eye Irrit. 2B-Aquatic Acute 3;H303-H320-H402
Octanal	124-13-0	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 2-Aquatic Chronic 3;H226-H315-H319-H401-H412
Lauric aldehyde	112-54-9	0.1-<1%	Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B;H315-H317-H319
Hydroxycitronellal	107-75-5	0.1-<1%	Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H317-H319-H402
alpha-Pinene	80-56-8	0.1-<1%	Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H302-H304-H315-H317-H410
l-Carvone	6485-40-1	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2;H227-H303-H313-H317-H401
Ethyl isovalerate	108-64-5	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Aquatic Acute 2;H226-H315-H401
Citronellal	106-23-0	0.1-<1%	Flam. Liq. 4-Acute Tox. 5-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 2;H227-H303-H313-H315-H317-H319-H401
Citronellyl acetate	150-84-5	0.1-<1%	Skin Irrit. 2-Aquatic Acute 2-Aquatic Chronic 2;H315-H411
trans-Anethole	4180-23-8	0.1-<1%	Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 2;H303-H316-H317-H401

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

delta-3-Carene	13466-78-9	0.1-<1%	Flam. Liq. 3-Acute Tox. 5-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1-Asp. Tox 1-Aquatic Acute 2-Aquatic Chronic 2; H226-H303-H304-H315-H317-H332-H411
Cinnamaldehyde	104-55-2	0.1-<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 (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

May be fatal if swallowed and enters airways.  
 Causes skin irritation.  
 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.

# SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

## 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.

### 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.

## 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

<b>Appearance:</b>	Free flowing liquid without sediment
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined
<b>pH:</b>	Not determined

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

<b>Melting point / freezing point:</b>	Not determined
<b>Initial boiling point / range:</b>	Not determined
<b>Flash point:</b>	54 °C
<b>Evaporation rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not determined
<b>Upper/lower flammability or explosive limits:</b>	Product does not present an explosion hazard
<b>Vapour pressure:</b>	Not determined
<b>Vapour density:</b>	Not determined
<b>Relative density:</b>	0.8640 - 0.8940
<b>Solubility(ies):</b>	Not determined
<b>Partition coefficient: n-octanol/water:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity:</b>	Not determined
<b>Explosive properties:</b>	Not expected
<b>Oxidising properties:</b>	Not expected

### 9.2 Other information:

Flash Point (Fahrenheit):	129 °F
Refractive Index @ 20C:	1.4726 - 1.4826
Color Range:	10 Dark Yellow - 8 Yellow
Calculated VOC:	75.25

## 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.

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

### 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.

<b>Acute Toxicity:</b>	Based on available data the classification criteria are not met.
Acute Toxicity Oral	>5000
Acute Toxicity Dermal	>5000
Acute Toxicity Inhalation	Not Available
<b>Skin corrosion/irritation:</b>	Skin Corrosion / Irritation Category 2
<b>Serious eye damage/irritation:</b>	Eye Damage / Irritation Category 2
<b>Respiratory or skin sensitisation:</b>	Sensitization - Skin Category 1
<b>Germ cell mutagenicity:</b>	Based on available data the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity:</b>	Based on available data the classification criteria are not met.
<b>STOT-single exposure:</b>	Based on available data the classification criteria are not met.
<b>STOT-repeated exposure:</b>	Based on available data the classification criteria are not met.
<b>Aspiration hazard:</b>	Aspiration Hazard Category 1

#### Information about hazardous ingredients in the mixture

Ingredient	CAS	LD50/ATE Oral (mg/kg)	LD50/ATE Dermal (mg/kg)	LC50/ATE Inhalation	LC50 Route
1,1-Dimethyl-2-phenylethyl acetate	151-05-3	3300	Not available	Not available	Not available
Decanal	112-31-2	3730	Not available	Not available	Not available
Dihydromyrcenol	18479-58-8	3020	Not available	Not available	Not available
Ethyl vanillin	121-32-4	3000	Not available	Not available	Not available
Linalool	78-70-6	2790	Not available	Not available	Not available
Vanillin	121-33-5	3300	2600	Not available	Not available
alpha-Amylcinnamaldehyde	122-40-7	3730	Not available	Not available	Not available
beta-Ionone	14901-07-6	3940	Not available	Not available	Not available
dl-Citronellol	106-22-9	3450	2650	Not available	Not available

Refer to Sections 2 and 3 for additional information.

### Section 12. Ecological information

#### 12.1 Toxicity:

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

**12.2 Persistence and degradability:** Not available

**12.3 Bioaccumulative potential:** Not available

**12.4 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:
<b>UN Model Regulations</b>	UN1197	EXTRACTS, LIQUID	3	-	III
<b>IMDG</b>	UN1197	EXTRACTS, LIQUID (d-Limonene) MARINE POLLUTANT	3	-	III
<b>ADR,RID,ADN</b>	UN1197	EXTRACTS, LIQUID	3	-	III
<b>ICAO TI</b>	UN1197	EXTRACTS, LIQUID	3	-	III

**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

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

Essential Oil Components:

Name	CAS	%
Orange oil, sweet, terpenes	8028-48-6, 68647-72-3	20-<50%
Orange peel, sweet, oil	8028-48-6, 8008-57-9	20-<50%

Components listed on California's Proposition 65:

Name	CAS	%
Myrcene	123-35-3	1-<5%

Naturally-Occuring Materials exempt from Prop65:

Name	CAS	%
Myrcene	123-35-3	

Components listed on California's SB312

Name	CAS	%
Linalool	78-70-6	1-<5%
alpha-Amylcinnamaldehyde	122-40-7	1-<5%
Citral	5392-40-5	1-<5%
Hydroxycitronellal	107-75-5	0.1-<1%
Cinnamaldehyde	104-55-2	0.1-<1%

Additional formulation properties

Name	CAS	%
Vanillin	121-33-5	1-<5%
Ethyl vanillin	121-32-4	1-<5%

### Section 16. Other information

**Concentration % Limits:** SCI 2=13.53% SCI 3=1.30% EDI 2A=60.49% SS 1=1.58% AH 1=15.52%  
 EH A1=38.62% EH A2=3.76% EH A3=0.37533860% EH C3=12.77% EH C4=31.99%

**Total Fractional Values:** SCI 2=7.39 SCI 3=77.09 EDI 2A=1.65 SS 1=63.21 AH 1=6.44 EH A1=2.59  
 EH A2=26.60 EH A3=266.43 EH C3=7.83 EH C4=3.13

**Key to revisions:**

Concentration % Limits

SECTION 3: Composition/information on ingredients

Total Fractional Values

**Key to abbreviations:**

Abbreviation	Meaning
Acute Tox. 4	Acute Toxicity - Oral Category 4
Acute Tox. 4	Acute Toxicity - Inhalation Category 4
Acute Tox. 4	Acute Toxicity - Dermal Category 4

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

Acute Tox. 5	Acute Toxicity - Oral Category 5
Acute Tox. 5	Acute Toxicity - Dermal 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 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
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful 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.
P210	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** FRESH ORANGE TYPE BULK F21427

**Version:** 2

P271	Use only outdoors or in a well-ventilated area.
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.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P330	Rinse mouth.
P331	Do not induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention.
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.
P363	Wash contaminated clothing before reuse.
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403/233/235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P403/235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
STOT SE 3	Specific Target Organ Toxicity (Single Exposure) Category 3
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Irrit. 3	Skin Corrosion / Irritation Category 3
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.