

## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Nutmeg Essential Oil EOKG-34

Alternative Codes:

EOB-34

EOBUL-34

PREO-34

PREOUL-34

EOUL-34

EO-34

**Version:** 4

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

#### 1.1 Product Identifier

**Product identifier:** Myristica fragrans oil; CAS: 84082-68-8

**Other identifiers:** Nutmeg Essential Oil EOKG-34

**Unique Formula Identifier (UFI):** 11S3-V0PR-X00D-ES2P

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

**Product uses:** Fragrances

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

**Company name:** AW Aromatics Ltd

**Company address:** Parkwood Business Park  
75 Parkwood Road  
Sheffield  
S3 8AL

**Contact:** Regulatory Manager

**E-Mail address:** regulatory@aw-aromatics.com

**Company phone:** 0114 383 0344

#### 1.4 Emergency telephone number

**Emergency phone:** 0114 383 0344

### Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### **Classification under Regulation (EC) No 1272/2008**

**Class and category of danger:** Flammable Liquid, Hazard Category 3  
Acute Toxicity - Oral Category 4  
Skin Corrosion / Irritation Category 2  
Eye Damage / Irritation Category 2  
Sensitization - Skin Category 1  
Germ Cell Mutagenicity Category 2  
Carcinogenicity Category 1B  
Aspiration Hazard Category 1

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Hazardous to the Aquatic Environment - Acute Hazard Category 1

Hazardous to the Aquatic Environment - Long-term Hazard Category 1

H226, Flammable liquid and vapour.

H302, Harmful if swallowed.

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.

H341, Suspected of causing genetic defects (exposure route).

H350, May cause cancer (exposure route).

H410, Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Classification under Regulation (EC) No 1272/2008

**Signal word:** Danger

**Hazard statements:** H226, Flammable liquid and vapour.  
H302, Harmful if swallowed.  
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.  
H341, Suspected of causing genetic defects (exposure route).  
H350, May cause cancer (exposure route).  
H410, Very toxic to aquatic life with long lasting effects.

**M factor:** None

**Supplemental Information:** None

**Precautionary statements:** P201, Obtain special instructions before use.  
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.

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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.  
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.  
P308/313, IF exposed or concerned: Get medical advice/attention.  
P330, Rinse mouth.  
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:**



**Unique Formula Identifier (UFI):**

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### 2.3 Other hazards

**Other hazards:** Hydrocarbon Concentration %: 72.0000%

### Section 3. Composition / information on ingredients

#### 3.1 Substances

**Product identifier:** Myristica fragrans oil; CAS: 84082-68-8

**Contains:**

| Name               | CAS       | EC        | REACH Registration No. | %       | Classification for (CLP) 1272/2008                                                                                                      | Specific Conc. Limits, M-factors and ATEs             |
|--------------------|-----------|-----------|------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| alpha-Pinene       | 80-56-8   | 201-291-9 |                        | 20-<50% | Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1-H410;H226-H302-H304-H315-H317-H410,- | M = 1-oral: ATE = 500 mg/kg bw                        |
| d-Limonene         | 5989-27-5 | 227-813-5 |                        | 5-<10%  | Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1-H410;H226-H304-H315-H317-H410,-                   |                                                       |
| p-Cymene           | 99-87-6   | 202-796-7 |                        | 5-<10%  | Flam. Liq. 3-Asp. Tox 1-Aquatic Chronic 2; H226-H304-H411,-                                                                             | oral: ATE = 4750 mg/kg bw                             |
| 4-Carvomenthenol   | 562-74-3  | 209-235-5 |                        | 5-<10%  | Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2;H302-H315-H319,-                                                                                | dermal: ATE = 2500 mg/kg bw-oral: ATE = 1300 mg/kg bw |
| Terpinolene        | 586-62-9  | 209-578-0 |                        | 5-<10%  | Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1-H410;H304-H317-H410,-                                                        | M = 1-oral: ATE = 3775 mg/kg bw                       |
| Myrcene            | 123-35-3  | 204-622-5 |                        | 5-<10%  | Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 2-H410;H226-H304-H315-H319-H410,-                    | M = 1                                                 |
| p-Mentha-1,4-diene | 99-85-4   | 202-794-6 |                        | 5-<10%  | Flam. Liq. 3-Asp. Tox 1;H226-H304,-                                                                                                     | oral: ATE = 3850 mg/kg bw                             |
| alpha-Phellandrene | 99-83-2   | 202-792-5 |                        | 5-<10%  | Flam. Liq. 3-Asp. Tox 1;H226-H304,-                                                                                                     |                                                       |

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|                      |            |           |  |         |                                                                                                                      |                                 |
|----------------------|------------|-----------|--|---------|----------------------------------------------------------------------------------------------------------------------|---------------------------------|
| p-Mentha-1,3-diene   | 99-86-5    | 202-795-1 |  | 5-<10%  | Flam. Liq. 3-Acute Tox. 4-Asp. Tox 1-Aquatic Chronic 2;H226-H302-H304-H411,-                                         | oral: ATE = 1680 mg/kg bw       |
| delta-3-Carene       | 13466-78-9 | 236-719-3 |  | 5-<10%  | Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1-H410;H226-H304-H315-H317-H410,- | M = 1-oral: ATE = 4800 mg/kg bw |
| Eucalyptol           | 470-82-6   | 207-431-5 |  | 5-<10%  | Flam. Liq. 3-Skin Sens. 1B;H226-H317,-                                                                               | oral: ATE = 2480 mg/kg bw       |
| Safrole              | 94-59-7    | 202-345-4 |  | 1-<5%   | Acute Tox. 4-Muta. 2-Carc. 1B;H302-H341-H350,-                                                                       | oral: ATE = 1950 mg/kg bw       |
| Camphene             | 79-92-5    | 201-234-8 |  | 0.1-<1% | Flam. Sol. 2-Aquatic Acute 1-Aquatic Chronic 1-H410;H228-H410,-                                                      | M = 1                           |
| Eugenyl methyl ether | 93-15-2    | 202-223-0 |  | 0.1-<1% | Acute Tox. 4-Muta. 2-Carc. 2;H302-H341-H351,-                                                                        | oral: ATE = 1180 mg/kg bw       |
| Eugenol              | 97-53-0    | 202-589-1 |  | 0.1-<1% | Eye Irrit. 2-Skin Sens. 1B;H317-H319,-                                                                               | oral: ATE = 2500 mg/kg bw       |
| Linalool             | 78-70-6    | 201-134-4 |  | 0.1-<1% | Skin Irrit. 2-Eye Irrit. 2-Skin Sens. 1B;H315-H317-H319,-                                                            | oral: ATE = 2790 mg/kg bw       |

### 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

Harmful if swallowed.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

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Suspected of causing genetic defects (exposure route).

May cause cancer (exposure route).

### 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.

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### Section 7. Handling and storage

#### 7.1 Precautions for safe handling:

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

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.

### 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

**Physical State/Colour:** Pale Yellow to Brown Liquid

**Odour:** Characteristic

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**Odour threshold:** Not determined

**Melting point / freezing point:** Not determined

**Boiling point or initial boiling point and boiling range:** Not determined

**Flammability:** Not determined

**Lower and upper explosion limit:** Not determined

**Flash point:** 38 °C

**Auto-ignition temperature:** Not determined

**Decomposition temperature:** Not relevant

**pH:** Not determined

**Kinematic viscosity:** Not determined

**Solubility:** Not determined

**Partition coefficient: n-octanol/water (log value):** Not determined

**Vapour pressure:** Not determined

**Density and/or relative density:** 0.8850

**Relative vapour density:** Not determined

**Particle characteristics:** Not determined

### 9.2 Other information:

Proposition 65 Listed Chemicals: Eugenyl methyl ether, COMP-LM8325, 93-15-2, 202-223-0, 0.9%

## 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.

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### 10.6 Hazardous decomposition products:

Not expected.

### Section 11. Toxicological information

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

|                                           |                                                                  |
|-------------------------------------------|------------------------------------------------------------------|
| <b>Acute Toxicity:</b>                    | Acute Toxicity - Oral Category 4                                 |
| Acute Toxicity Oral                       | 1350                                                             |
| 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>            | Germ Cell Mutagenicity Category 2                                |
| <b>Carcinogenicity:</b>                   | Carcinogenicity Category 1B                                      |
| <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      | EC        | LD50/ATE<br>Oral (mg/kg) | LD50/ATE<br>Dermal (mg/kg) | LC50/ATE<br>Inhalation | LC50<br>Route |
|--------------------|----------|-----------|--------------------------|----------------------------|------------------------|---------------|
| 4-Carvomenthenol   | 562-74-3 | 209-235-5 | 1300                     | 2500                       |                        |               |
| Safrole            | 94-59-7  | 202-345-4 | 1950                     |                            |                        |               |
| alpha-Pinene       | 80-56-8  | 201-291-9 | 500                      |                            |                        |               |
| p-Mentha-1,3-diene | 99-86-5  | 202-795-1 | 1680                     |                            |                        |               |

Refer to Sections 2 and 3 for additional information.

#### 11.2 Information on other hazards

Not Applicable

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### Section 12. Ecological information

#### 12.1 Toxicity:

Very toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability:** Not available

**12.3 Bioaccumulative potential:** Not available

**12.4 Mobility in soil:** Not available

#### 12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 Endocrine disrupting properties:** Not Applicable

**12.7 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 or ID number: | 14.2 UN Proper Shipping Name:                       | 14.3 Transport hazard class (es): | Sub Risk: | 14.4 Packing Group: |
|----------------------|------------------------------|-----------------------------------------------------|-----------------------------------|-----------|---------------------|
| UN Model Regulations | UN1197                       | EXTRACTS, LIQUID                                    | 3                                 | -         | III                 |
| IMDG                 | UN1197                       | EXTRACTS, LIQUID (alpha-Pinene)<br>MARINE POLLUTANT | 3                                 | -         | III                 |
| ADR,RID,ADN          | UN1197                       | EXTRACTS, LIQUID                                    | 3                                 | -         | III                 |
| ICAO TI              | 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 Maritime transport in bulk according to IMO instruments:**

Not applicable

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### Section 15. Regulatory information

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

Proposition 65 Listed Chemicals

| Name                 | CAS     | %       |
|----------------------|---------|---------|
| Eugenyl methyl ether | 93-15-2 | 0.1-<1% |

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

### Section 16. Other information

**Concentration % Limits:** SCI 2=19.23% EDI 2=100.00% SS 1(CLP)=3.33% MUT 2=100.00% CAR 1B=10.00% AH 1=13.89% EH A1=47.26% EH C1=52.19% EH C2=5.06% EH C3=0.50607287% EH C4=39.75%

**Total Fractional Values:** SCI 2=5.20 EDI 2=1.00 SS 1(CLP)=30.00 MUT 2=1.00 CAR 1B=10.00 AH 1=7.20 EH A1=2.12 EH C1=1.92 EH C2=19.76 EH C3=197.60 EH C4=2.52

#### Key to revisions:

Classification under Regulation (EC) No 1272/2008  
Concentration % Limits  
Endocrine Disruptor Ingredient Details  
Endocrine Disruptor Ingredient Details Banded  
Hazardous Ingredients disclosed in a CLP Safety Data Sheet with banded concentrations  
Information about hazardous ingredients in the mixture  
Information about hazardous ingredients in the mixture  
Ingredients with a PBT or vPvB disclosed on a CLP Safety Data Sheet Banded  
Ingredients with an Occupational Exposure Limit disclosed on a CLP Safety Data Sheet Banded values  
SECTION 3: Composition/information on ingredients  
Total Fractional Values

#### Key to abbreviations:

| Abbreviation      | Meaning                                                            |
|-------------------|--------------------------------------------------------------------|
| Acute Tox. 4      | 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 - Long-term Hazard Category 1 |

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|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Aquatic Chronic 2 | Hazardous to the Aquatic Environment - Long-term Hazard Category 2       |
| Asp. Tox 1        | Aspiration Hazard Category 1                                             |
| Carc. 1B          | Carcinogenicity Category 1B                                              |
| Carc. 2           | Carcinogenicity Category 2                                               |
| Eye Irrit. 2      | Eye Damage / Irritation Category 2                                       |
| Flam. Liq. 3      | Flammable Liquid, Hazard Category 3                                      |
| Flam. Sol. 2      | Flammable Solid, Hazard Category 2                                       |
| H226              | Flammable liquid and vapour.                                             |
| H228              | Flammable solid.                                                         |
| H302              | Harmful if swallowed.                                                    |
| 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.                                           |
| H341              | Suspected of causing genetic defects (exposure route).                   |
| H350              | May cause cancer (exposure route).                                       |
| H351              | Suspected of causing cancer (exposure route).                            |
| H410              | Very toxic to aquatic life with long lasting effects.                    |
| H411              | Toxic to aquatic life with long lasting effects.                         |
| Muta. 2           | Germ Cell Mutagenicity Category 2                                        |
| P201              | Obtain special instructions before use.                                  |
| 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.                      |
| 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.                   |
| P281              | Use personal protective equipment as required.                           |
| P301/310          | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.      |

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|               |                                                                                                                                  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------|
| P301/312      | IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.                                                       |
| 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.                       |
| P305/351/338  | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308/313      | IF exposed or concerned: Get medical advice/attention.                                                                           |
| 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.                                                                                                                |
| P403/235      | 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.                                   |
| Skin Irrit. 2 | Skin Corrosion / Irritation Category 2                                                                                           |
| Skin Sens. 1  | Sensitization - Skin Category 1                                                                                                  |
| 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.