

according to Regulation (EC) No 1907/2006

## NATURAL BORNEOL

Revision date: 07.09.2023

Product code: 215700

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

## 1.1. Product identifier

NATURAL BORNEOL

| Substance name: | NATURAL BORNEOL |
|-----------------|-----------------|
| CAS No:         | 507-70-0        |
| EC No:          | 208-080-0       |

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

#### Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

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

| Company name:            | Axxence Aromatic GmbH            |                              |
|--------------------------|----------------------------------|------------------------------|
| Street:                  | Tackenweide 28                   |                              |
| Place:                   | D-46446 Emmerich am Rhein        |                              |
| Telephone:               | + 49 2822 68561 0                | Telefax: + 49 2822 68561 39  |
| E-mail:                  | info@axxence.com                 |                              |
| Contact person:          | Safety Team                      | Telephone: + 49 2822 68561 0 |
| E-mail:                  | safety-documentation@axxence.com |                              |
| Internet:                | www.axxence.de                   |                              |
| Responsible Department:  | Safety Management                |                              |
| 1.4. Emergency telephone | +49 2822 68561 99                |                              |

#### number:

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

Flam. Sol. 1; H228 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

## Regulation (EC) No 1272/2008

Signal word:

Pictograms:



#### Hazard statements

| H228              | Flammable solid.   |
|-------------------|--|
| H315              | Causes skin irritation.  |
| H318              | Causes serious eye damage.   |
| H411              | Toxic to aquatic life with long lasting effects.   |
| Precautionary sta | atements   |
| P210              | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P240              | Ground and bond container and receiving equipment.   |
|                   |  |



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|---------------------------|--|--------------|
| P241                      | Use explosion-proof electrical/ventilating/lighting equipment.   |              |
| P264                      | Wash hands thoroughly after handling.  |              |
| P273                      | Avoid release to the environment.  |              |
| P280                      | Wear protective gloves/protective clothing/eye protection/face protection/hearing<br>protection.                                 |              |
| P302+P352                 | IF ON SKIN: Wash with plenty of Water and soap.  |              |
| P332+P313                 | If skin irritation occurs: Get medical advice/attention.   |              |
| P362+P364                 | Take off contaminated clothing and wash it before reuse.   |              |
| P305+P351+P338            | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |              |
| P310                      | Immediately call a POISON CENTER/doctor.   |              |
| P370+P378                 | In case of fire: Use Water spray jet / alcohol resistant foam / Extinguishing powder /<br>Carbon dioxide (CO2) to extinguish.    |              |
| P391                      | Collect spillage.  |              |
| P501                      | Dispose of contents/container to organic waste.  |              |
| 2.2 Other hererde         |  |              |

### 2.3. Other hazards

This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59.

This substance is not identifed as SVHC (substance of very high concern) and is not subject to autorisation according to Annex XIV of REACH.

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

## 3.1. Substances

| Sum formula:      | C10 H18 O    |
|-------------------|--------------|
| Molecular weight: | 154,25 g/mol |

#### **Relevant ingredients**

| CAS No  | Chemical name                         |                                   |          | Quantity |
|---|---------------------------------------|-----------------------------------|----------|----------|
|   | EC No                                 | Index No                          | REACH No |          |
| Classification (Regulation (EC) No 1272/2008) |                                       |                                   |          |          |
| 507-70-0                                      | -0 NATURAL BORNEOL                    |                                   |          |          |
|   | 208-080-0                             |                                   |          |          |
|   | Flam. Sol. 1, Skin Irrit. 2, Eye Dam. | 1, Aquatic Chronic 2; H228 H315 H | 318 H411 |          |

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

#### Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No                                    | Chemical name                           | Quantity |
|----------|--|---|----------|
|          | Specific Conc. Limits, M-factors and ATE |   |          |
| 507-70-0 | 208-080-0                                | NATURAL BORNEOL                         | 100 %    |
|          | dermal: LD50 =                           | : >2000 mg/kg; oral: LD50 = >2000 mg/kg |          |

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids



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apart and consult an ophthalmologist.

#### **4.2. Most important symptoms and effects, both acute and delayed** No information available.

## 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

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

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

Flammable. Vapours can form explosive mixtures with air.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

#### **General advice**

Remove all sources of ignition. Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

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

### For cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

## Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.



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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

### 7.3. Specific end use(s)

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

#### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### DNEL/DMEL values

| CAS No       | Name of agent  |                |          |                |
|--------------|--|----------------|----------|----------------|
| DNEL type    |  | Exposure route | Effect   | Value          |
| 507-70-0     | NATURAL BORNEOL  |                | -        |                |
| Worker DNEL, | long-term  | inhalation     | systemic | 17632 mg/m³    |
| Worker DNEL, | Worker DNEL, long-term dermal systemic 10 mg/kg bw/day |                |          |                |
| Consumer DNE | EL, long-term  | inhalation     | systemic | 4348 mg/m³     |
| Consumer DNE | EL, long-term  | dermal         | systemic | 5 mg/kg bw/day |
| Consumer DNE | EL, long-term  | oral           | systemic | 5 mg/kg bw/day |

## **PNEC** values

| CAS No  | Name of agent                   |             |  |  |  |  |
|---|---------------------------------|-------------|--|--|--|--|
| Environmental   | Environmental compartment Value |             |  |  |  |  |
| 507-70-0  | NATURAL BORNEOL                 |             |  |  |  |  |
| Freshwater  |                                 | 0,0017 mg/l |  |  |  |  |
| Freshwater (intermittent releases) 0,017 mg/l           |                                 |             |  |  |  |  |
| Marine water  | Marine water 0,0002 mg/l        |             |  |  |  |  |
| Marine water (intermittent releases) 0,0017 mg/l        |                                 |             |  |  |  |  |
| Freshwater sediment 0,139 mg/kg                         |                                 |             |  |  |  |  |
| Marine sediment 0,017 mg/kg                             |                                 |             |  |  |  |  |
| Micro-organisms in sewage treatment plants (STP) 1 mg/l |                                 |             |  |  |  |  |
| Soil  | 0,013 mg/kg                     |             |  |  |  |  |

#### 8.2. Exposure controls







#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Individual protection measures, such as personal protective equipment

### Eye/face protection

Suitable eye protection: goggles.



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### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type: Disposable gloves + NBR (Nitrile rubber) Suitable gloves type: Disposable gloves + NBR (Nitrile rubber)

## Skin protection

Use of protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

| Physical state:                       | crystalline         |                 |  |
|---------------------------------------|---------------------|-----------------|--|
| Colour:                               | white               |                 |  |
| Melting point/freezing point:         |                     | 206 °C          |  |
| Boiling point or initial boiling poin | t and               | 194 °C          |  |
| boiling range:                        |                     |                 |  |
| Flammability:                         |                     | not determined  |  |
| Lower explosion limits:               |                     | not determined  |  |
| Upper explosion limits:               |                     | not determined  |  |
| Flash point:                          |                     | Not determined. |  |
| Auto-ignition temperature:            |                     | not determined  |  |
| Decomposition temperature:            |                     | not determined  |  |
| pH-Value:                             |                     | not determined  |  |
| Water solubility:<br>(at 20 °C)       |                     | 0,01 g/l        |  |
| Solubility in other solvents          |                     |                 |  |
| not determined                        |                     |                 |  |
| Partition coefficient n-octanol/wa    | ter.                | 3.6             |  |
| Vapour pressure:                      |                     | 44,7 hPa        |  |
| (at 25 °C)                            |                     | ,               |  |
| Density (at 20 °C):                   |                     | 1,01 g/cm³      |  |
| Relative vapour density:              |                     | not determined  |  |
| 9.2. Other information                |                     |                 |  |
| Information with regard to phys       | ical hazard classes |                 |  |
| Explosive properties                  |                     |                 |  |
| The product is not: Explosive         |                     |                 |  |
| Oxidizing properties                  |                     |                 |  |
| The product is not: oxidising.        |                     |                 |  |
| Other safety characteristics          |                     |                 |  |
| Evaporation rate:                     |                     | not determined  |  |
| Solvent content:                      |                     | 0%              |  |
| Solid content:                        |                     | 100,00 %        |  |
| SECTION 10: Stability and road        | 41.,14.,            |                 |  |

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

#### 10.1. Reactivity

Flammable.

#### 10.2. Chemical stability

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The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

## 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### **SECTION 11: Toxicological information**

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

#### Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No   | Chemical name   |               |       |         |                    |          |  |
|----------|-----------------|---------------|-------|---------|--------------------|----------|--|
|          | Exposure route  | Dose          |       | Species | Source             | Method   |  |
| 507-70-0 | NATURAL BORNEOL |               |       |         |                    |          |  |
|          | oral            | LD50<br>mg/kg | >2000 | Rat     | REACH registration | OECD 420 |  |
|          | dermal          | LD50<br>mg/kg | >2000 | Rat     | REACH registration | OECD 402 |  |

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

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.

## 11.2. Information on other hazards

## Endocrine disrupting properties

No information available.

## Other information

No information available.

#### Further information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Toxic to aquatic life with long lasting effects.



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| CAS No   | Chemical name            |                |       |           |                                    |                       |          |
|----------|--------------------------|----------------|-------|-----------|------------------------------------|-----------------------|----------|
|          | Aquatic toxicity         | Dose           |       | [h]   [d] | Species                            | Source                | Method   |
| 507-70-0 | NATURAL BORNEOL          |                |       |           |                                    |                       |          |
|          | Acute fish toxicity      | LC50<br>mg/l   | 33,25 | 96 h      | Danio rerio (zebrafish)            | REACH<br>registration | OECD 203 |
|          | Acute algae toxicity     | ErC50<br>mg/l  | 1,71  | 72 h      | Pseudokirchneriella<br>subcapitata | REACH<br>registration | OECD 201 |
|          | Acute crustacea toxicity | EC50<br>mg/l   | 4,23  | 48 h      | Daphnia magna (Big<br>water flea)  | REACH<br>registration | OECD 202 |
|          | Algae toxicity           | NOEC<br>mg/l   | 0,032 | 3 d       | Pseudokirchneriella<br>subcapitata | REACH<br>registration | OECD 201 |
|          | Acute bacteria toxicity  | EC50<br>mg/l() | >100  | 3 h       | Activated sludge                   | REACH<br>registration | OECD 209 |

## 12.2. Persistence and degradability

The product has not been tested.

| CAS No   | Chemical name                                       |       |    |                    |  |  |  |
|----------|---|-------|----|--------------------|--|--|--|
|          | Method  | Value | d  | Source             |  |  |  |
|          | Evaluation  |       |    | -                  |  |  |  |
| 507-70-0 | NATURAL BORNEOL                                     |       |    |                    |  |  |  |
|          | OECD 301F   | 51%   | 7  | REACH registration |  |  |  |
|          | Readily biodegradable (according to OECD criteria). |       |    |                    |  |  |  |
|          | OECD 301F   | 67%   | 15 | REACH registration |  |  |  |
|          | Readily biodegradable (according to OECD criteria). |       |    |                    |  |  |  |
|          | OECD 301F   | 77%   | 28 | REACH registration |  |  |  |
|          | Readily biodegradable (according to OECD criteria). |       |    |                    |  |  |  |

## 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

| CAS No   | Chemical name   | Log Pow |
|----------|-----------------|---------|
| 507-70-0 | NATURAL BORNEOL | 3,6     |

### 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. The product has not been tested.

# 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

No information available.

## Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.



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### List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

## List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

## Land transport (ADR/RID)

| 14.1. UN number or ID number:                | UN 1312          |
|--|------------------|
| 14.2. UN proper shipping name:               | BORNEOL          |
| 14.3. Transport hazard class(es):            | 4.1              |
| 14.4. Packing group:                         | III              |
| Hazard label:                                | 4.1              |
|  |                  |
| Classification code:                         | F1               |
| Limited quantity:                            | 5 kg             |
| Excepted quantity:                           | E1               |
| Transport category:                          | 3                |
| Hazard No:                                   | 40               |
| Tunnel restriction code:                     | E                |
| Other applicable information (land transp    | ort)             |
| E1   |                  |
| Inland waterways transport (ADN)             |                  |
| 14.1. UN number or ID number:                | UN 1312          |
| 14.2. UN proper shipping name:               | BORNEOL          |
| 14.3. Transport hazard class(es):            | 4.1              |
| 14.4. Packing group:                         | III              |
| Hazard label:                                | 4.1              |
|  |                  |
| Classification code:                         | F1               |
| Limited quantity:                            | 5 kg             |
| Excepted quantity:                           | E1               |
| Other applicable information (inland wate E1 | rways transport) |
| Marine transport (IMDG)                      |                  |
| 14.1. UN number or ID number:                | UN 1312          |
| 14.2. UN proper shipping name:               | BORNEOL          |
| 14.3. Transport hazard class(es):            | 4.1              |
|  |                  |



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| 14.4. Packing group:  |  |                      |              |  |  |
| Hazard label:   | 4.1  |                      |              |  |  |
|   |  |                      |              |  |  |
|   |  |                      |              |  |  |
| Special Provisions:   | -  |                      |              |  |  |
| Limited quantity:   | -<br>5 kg                                    |                      |              |  |  |
| Excepted quantity:  | E1   |                      |              |  |  |
| EmS:  | F-A, S-I                                     |                      |              |  |  |
| Air transport (ICAO-TI/IATA-DGR)                                  |  |                      |              |  |  |
| <u>14.1. UN number or ID number:</u>                              | UN 1312                                      |                      |              |  |  |
| 14.2. UN proper shipping name:                                    | BORNEOL                                      |                      |              |  |  |
| 14.3. Transport hazard class(es):                                 | 4.1  |                      |              |  |  |
| <u>14.4. Packing group:</u><br>Hazard label:                      | III<br>4.1                                   |                      |              |  |  |
|   |  |                      |              |  |  |
|   |  |                      |              |  |  |
|   |  |                      |              |  |  |
| Special Provisions:   | A803   |                      |              |  |  |
| Limited quantity Passenger:                                       | 10 kg  |                      |              |  |  |
| Passenger LQ:   | Y443   |                      |              |  |  |
| Excepted quantity:  | E1   |                      |              |  |  |
| IATA-packing instructions - Passenger:                            | 446  |                      |              |  |  |
| IATA-max. quantity - Passenger:                                   | 25 kg  |                      |              |  |  |
| IATA-packing instructions - Cargo:<br>IATA-max. quantity - Cargo: | 449<br>100 kg                                |                      |              |  |  |
| 14.5. Environmental hazards                                       | 100 Kg                                       |                      |              |  |  |
| ENVIRONMENTALLY HAZARDOUS:  | Yes  |                      |              |  |  |
|   |  | ₹                    |              |  |  |
|   |  |                      |              |  |  |
| Danger releasing substance:                                       | NATURAL BORNEOL                              | ~                    |              |  |  |
| 14.6. Special precautions for user                                |  |                      |              |  |  |
| Warning: Flammable solids.  |  |                      |              |  |  |
| 14.7. Maritime transport in bulk according                        | to IMO instruments                           |                      |              |  |  |
| not applicable  |  |                      |              |  |  |
| SECTION 15: Regulatory information                                |  |                      |              |  |  |
| 15.1. Safety, health and environmental regu                       | lations/legislation specific for the substan | <u>ce or mixture</u> |              |  |  |
| EU regulatory information   |  |                      |              |  |  |
| Restrictions on use (REACH, annex XVII)                           | :  |                      |              |  |  |
| Entry 40  |  |                      |              |  |  |
| Directive 2010/75/EU on industrial emissions:                     | 100 % (1010 g/l)                             |                      |              |  |  |
| Directive 2004/42/EC on VOC in                                    | 100 % (1010 g/l)                             |                      |              |  |  |
| paints and varnishes:   |  |                      |              |  |  |
| Information according to Directive                                | E2 Hazardous to the Aquatic Environment      | t                    |              |  |  |
| 2012/18/EU (SEVESO III):  |  |                      |              |  |  |
| Additional information  |  |                      |              |  |  |
| To follow: 850/2004/EC, 79/117/EEC,                               | 689/2008/EC                                  |                      |              |  |  |

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC



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## National regulatory information

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 2 - obviously hazardous to water

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

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

### Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,8,9,11,14.



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## Abbreviations and acronyms

Flam. Sol: Flammable solid Skin Irrit: Skin irritation Eye Dam: Eye damage Aquatic Chronic: Chronic aquatic hazard ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Relevant H and EUH statements (number and full text) H228 Flammable solid.

## H315 Causes skin irritation.

- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.

## Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.



according to Regulation (EC) No 1907/2006

## NATURAL BORNEOL

Revision date: 07.09.2023

Product code: 215700

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### Identified uses

| No | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|-------------|-----|----|----|------|-----|----|----|---------------|
| 1  |             | -   | 4  | 28 | -    | -   | -  | -  | Flavour       |

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use PROC: Process categories

AC: Article categories