

## Material Safety Data Sheet

### According to 91/155 EEC

Version 2

Issued : 22.08.06

#### 1 Identification of substance

Product Name: INDALCA PA3R (Code 2011)

Supplier:

Please note: This is the MSDS provided by the supplier of these goods to FIBRECRAFTS.

FIBRECRAFTS does not have the qualifications necessary to gather such specialised data.

Tel: 01483 565800

#### 2 Composition/Data on components:

- **Chemical characterization**
- **Description:**
- *Description: derivate of guar*
- **Dangerous components:**
- 55965-84-9 reaction mixture, made of 5-chloro-2-methyl-2H-isothiazol-3-one a. 2-methyl-2H-isothiazol-3-one (3:1) < 0.03%  
T, N; R 23/24/25-34-43-50
- **Additional information** For the wording of the listed risk phrases refer to section 16.

#### 3 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**  
R 43 May cause sensitisation by skin contact.
- **Classification system:**  
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

#### 4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Provide with fresh air; consult doctor in case of symptoms.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

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- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**  
Rinse mouth and throat with water.  
In case of persistent symptoms consult doctor.

#### 5 Fire fighting measures

- **Suitable extinguishing agents** CO<sub>2</sub>, alcohol-resistant foam, extinguishing powder
- **For safety reasons unsuitable extinguishing agents** water (forms a paste - slippery surface)
- **Special hazards caused by the material, its products of combustion or flue gases:**  
Can be released in case of fire:  
Oxides of carbon (CO<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)  
In case of fire or smouldering fires harmful substances are released.
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
In case of fire do not inhale smoke, conflagration gases and steams  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### 6 Accidental release measures

- **Person-related safety precautions:**  
Personal protection see point 8.  
Avoid causing dust.  
Product forms slippery surface when combined with water.
- **Measures for environmental protection:**  
Do not allow to enter the ground, water or sewage system.  
Pay attention to local or official regulations.
- **Measures for cleaning/collecting:**  
Close drains (risk of blockage)  
Collect mechanically.  
Dispose of the material collected according to regulations.  
Do not flush with water or aqueous cleaning agents  
Slippery surface!  
Avoid causing dust.

#### 7 Handling and storage

- **Handling**
- **Information for safe handling:** Avoid causing dust.
- **Information about protection against explosions and fires:**  
Avoid producing dust.  
Dust can be combined with air to form an explosive mixture.  
Protect against electrostatic charges.  
Keep ignition sources away - Do not smoke.

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- **Storage**
- **Requirements to be met by storerooms and containers:**  
Do always store in containers which correspond to the original ones.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Prevent formation of dust and deposition.  
Store in cool, dry conditions in well sealed containers.
- **Storage class:** 11 (according to VCI-outline)

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
- **Remarks:** Total dust - amount of dust inhaled      MAK (GERMANY) 4 mg/m<sup>3</sup>
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to in handling the chemicals.  
Instantly remove any soiled and impregnated garments.  
Avoid contact with the eyes and skin.  
Do not inhale dust / smoke / mist.
- **Breathing equipment:**  
Use breathing protection in case of insufficient ventilation.  
filter P
- **Protection of hands:** Protective gloves.
- **Material of gloves**  
suitable, e.g.:  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.35$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
Value for the permeation: Level  $\geq 6$  (480 min)  
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

### 9 Physical and chemical properties:

- **General Information**

<b>Form:</b>	Solid
<b>Colour:</b>	Beige
<b>Smell:</b>	Characteristic
<b>Melting point/Melting range:</b>	Decomposition at the melting point.

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<ul style="list-style-type: none"> <li>· <b>Boiling point/Boiling range:</b></li> <li>· <b>Flash point:</b></li> <li>· <b>Self-inflammability:</b></li> <li>· <b>Danger of explosion:</b></li> <li>· <b>Critical values for explosion:</b></li> <li style="padding-left: 20px;">Oxidizing properties</li> <li>· <b>Steam pressure:</b></li> <li>· <b>Density</b></li> <li>· <b>Settled apparent density at 20°C</b></li> <li>· <b>Relative steam density (air = 1):</b></li> <li>· <b>Evaporation rate</b></li> <li>· <b>Solubility in / Miscibility with</b></li> <li style="padding-left: 20px;">Water at 20°C:</li> <li>· <b>pH-value (60 g/l) at 20°C:</b></li> <li>· <b>Segregation coefficient (n-octanol/water):</b></li> <li>· <b>Viscosity:</b></li> <li style="padding-left: 20px;">dynamic at 20°C:</li> </ul>	<ul style="list-style-type: none"> <li>not applicable</li> <li>not applicable</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However formation of explosive air/dust mixtures is possible.</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>ca. 650 kg/m<sup>3</sup></li> <li>Not applicable</li> <li>Not applicable</li> <li>80 g/l thickens</li> <li>6.2 - 8.4</li> <li>Not applicable</li> <li>13300 - 17850 mPas (aqueous solution 6%) (Brookfield RVT spindle 6 / 20 rpm)</li> </ul>
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### 10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous products of composition:**  
No dangerous decomposition if stored and handled appropriately.  
Can be released in case of fire:  
see Section 5

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
Argument by analogy:  
**Product**  
Oral LD50 > 2000 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** In case of longer, direct contact with the skin slight irritations of the skin are possible.
- **on the eye:** In case of direct contact irritations are possible.
- **In case of inhalation:** Dust may cause irritations of the mucous membranes when being inhaled.
- **Sensitization:** Sensitization possible by skin contact.

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- **Other information (about experimental toxicology):** Experimental tests are not available.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Irritant

### 12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Method**  
Zahn-Wellens-Test OECD 302 B with CO<sub>2</sub> (DIN-EN 29439)  
(argument by analogy)
- **Analysing method** DOC and CO<sub>2</sub> measurement
- **Degree of elimination:** > 70 %
- **Evaluation text:**  
The product is not readily biodegradable according to criteria of OECD but inherently biodegradable.
- **Ecotoxicological effects:**
- **Aquatic toxicity:**
- **Daphnia toxicity EC 50 (OECD 202 part 1, DIN 38412 part 11, DEV L11):**  
> 500 mg/l (Daphnia magna, 48 h)  
(argument by analogy)
- **Behaviour in sewage processing plants:**
- **Bacteria toxicity EC 50:** > 1000 mg/l (OECD 209)
- **Other information:**  
According to the previous knowledge no damaging effects will occur to purification plant, if used according to instructions.
- **Additional ecological information:**
- **Chemical oxygen demand COD (DIN 38 409 part 41, 43; DEV H 41,43):** 865 mg O<sub>2</sub>/g
- **Biochemical oxygen demand BOD<sub>5</sub> (DIN 38 409 part 51; DEV H51):** 274 mg O<sub>2</sub>/g
- **AOX (DIN 38 409 dalis 14; DEV H 14):**
- **AOX information:** The product does not increase the AOX-value of the waste water.
- **According to recipe contains the following heavy metals and compounds according to EC directive 76/464 EC:**  
According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 76/464 EC.

### 13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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### 14 Transport information

- **Transport/Additional information:**  
Does not belong to dangerous goods according to transport regulations.

### 15 Regulatory information

- **Designation according to EC guidelines:**  
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)  
Observe the normal safety regulations when handling chemicals.
- **Code letter and hazard designation of product:**  
Xi Irritant
- **Hazard-determining components of labelling:**  
reaction mixture, made of 5-chloro-2-methyl-2H-isothiazol-3-one a. 2-methyl-2H-isothiazol-3-one (3:1)
- **Risk phrases:**  
43 May cause sensitisation by skin contact.
- **Safety phrases:**  
24 Avoid contact with skin.  
37 Wear suitable gloves.

### 16 Other information:

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**  
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
34 Causes burns.  
43 May cause sensitisation by skin contact.  
50 Very toxic to aquatic organisms.
- **Department issuing data specification sheet:** Product Safety
- **Contact:** Mr. Knörzer
- **\* Data compared to the previous version altered.** Chapter 2, 3, 5, 7, 8, 9, 10, 11, 12, 15, 16