SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier
Product Description: Indole
Cat No. 122150000; 122150100; 122150250; 122151000; 122155000
Synonyms 2,3-Benzopyrrole

Relevant identified uses of the substance or mixture and uses advised against
Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet
Company Acros Organics BVBA
Janssen Pharmaceuticaan 3a
2440 Geel, Belgium
E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number
For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100
CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
REGULATION (EC) No 1272/2008
Acute dermal toxicity Category 4
Serious Eye Damage/Eye Irritation Category 1
Acute aquatic toxicity Category 1
Chronic aquatic toxicity Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC
For the full text of the R-phrases and H-statements mentioned in this Section, see Section 16
Symbol(s) Xn - Harmful
N - Dangerous for the environment

R-phrase(s) R41 - Risk of serious damage to eyes
R50 - Very toxic to aquatic organisms

Risk Combination Phrases R21/22 - Harmful in contact with skin and if swallowed
SECTION 2. HAZARDS IDENTIFICATION

Label Elements

![Label Icons]

Signal Word Danger

Hazard Statements
H312 - Harmful in contact with skin
H318 - Causes serious eye damage
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P280 - Wear eye protection/ face protection
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 or doctor/ physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P273 - Avoid release to the environment

Other Hazards
No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Indole</td>
<td>EEC No. 204-420-7</td>
<td>&gt;95</td>
<td>120-72-9</td>
<td>Xn; R21/22 Xi; R41 N; R50</td>
<td>Eye Dam. 1 (H318) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Aquatic Acute 1 (H400)</td>
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</tbody>
</table>

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16
SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Ingestion
Do not induce vomiting. Call a physician or Poison Control Center immediately.

Inhalation
Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

Notes to Physician
Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons
No information available.

Special hazards arising from the substance or mixture
Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental precautions
Should not be released into the environment.

Methods and material for containment and cleaning up
Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.
SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological limit values
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)
No information available.

Predicted No Effect Concentration (PNEC)
No information available.

Exposure controls

Engineering Measures
Use only under a chemical fume hood Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment

Eye Protection
Goggles

Hand Protection
Protective gloves

Skin and body protection
Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls
No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Solid

Appearance
Off-white

odor
Characteristic

pH
5.9 1000g/L (20°C)

Vapor Pressure
0.012 mmHg @ 25 °C

Boiling Point/Range
253 - 254°C / 487.4 - 489.2°F @ 760 mmHg
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Melting Point/Range</td>
<td>51 - 53°C / 123.8 - 127.4°F</td>
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<tr>
<td>Decomposition temperature</td>
<td>&gt; 253°C</td>
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<tr>
<td>Flash Point</td>
<td>136°C / 276.8°F</td>
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<tr>
<td>Autoignition Temperature</td>
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<tr>
<td>Water Solubility</td>
<td>2.80 g/L (25°C)</td>
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<tr>
<td>Specific Gravity</td>
<td>1.220</td>
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<tr>
<td>Molecular Formula</td>
<td>C8 H7 N</td>
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<tr>
<td>Molecular Weight</td>
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SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Sensitivity to light.

Possibility of Hazardous Reactions

Hazardous Polymerization
Hazardous Polymerization does not occur.

Hazardous Reactions
None under normal processing.

Conditions to Avoid

Incompatible products, Excess heat, Avoid dust formation, Exposure to light.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>LD₅₀ Oral (Rat)</th>
<th>LD₅₀ Dermal (Rabbit)</th>
<th>LC₅₀ Inhalation (Dust)</th>
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<tbody>
<tr>
<td>Indole</td>
<td>1 g/kg</td>
<td>790 mg/kg</td>
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Revision Date 16-Nov-2010
Chronic Toxicity
There are no known carcinogenic chemicals in this product

Sensitization
No information available.

Mutagenic Effects
No information available.

Reproductive Effects
No information available.

Developmental Effects
No information available.

Target Organs
Eyes Skin Respiratory system

Other Adverse Effects
The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Endocrine Disruptor Information
None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects
Very toxic to aquatic organisms Do not empty into drains

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
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<tbody>
<tr>
<td>Indole</td>
<td></td>
<td>Onchorhynchus mykiss: LC50=10 mg/L 24h</td>
<td></td>
<td>1 mg/L 48h</td>
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</table>

Persistence and degradability
Readily biodegradable

Bioaccumulative potential
No information available.

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<th>Component</th>
<th>log Pow</th>
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<tbody>
<tr>
<td>Indole</td>
<td>2.14</td>
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Mobility in soil
No information available.

Results of PBT and vPvB assessment
No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products
Dispose of in accordance with local regulations

Contaminated Packaging
Empty containers should be taken to local recyclers for disposal
SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

<table>
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<th>UN-No</th>
<th>2811</th>
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<td>Hazard Class</td>
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<tr>
<td>Packing Group</td>
<td>III</td>
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<td>Proper Shipping Name</td>
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ADR

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IATA

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SECTION 15. REGULATORY INFORMATION

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

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>PICCS</th>
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<td>X</td>
<td>X</td>
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Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
AICS - Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment
SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
R41 - Risk of serious damage to eyes
R50 - Very toxic to aquatic organisms
R21/22 - Harmful in contact with skin and if swallowed

Revision Date 16-Nov-2010
Revision Summary
Reason for revision Not applicable
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet