

1. Identification of the substance and of the supplier

| | |
|--|--|
| Product identifier | |
| Product name | BANGCHAK R&O 150, 220, 320 |
| Recommended use of the chemical and restrictions on use | |
| Used in general circulating systems | |
| Manufacture 's details | |
| Company Address | 2098 M Tower Building, 8 th Floor, Sukhumvit Road, Phrakanong Tai, Phrakanong, Bangkok 10260 Thailand |
| Phone number | +66 2335 4999 |
| Fax | +66 2016 3991 |
| Emergency phone number | +66 2335 8888 |

2. Hazards Identification

| | |
|---|------------|
| GHS classification of the substance /mixture | |
| Acute oral toxicity | Category 5 |
| Acute inhalation toxicity | Category 4 |
| Respiratory or skin sensitization | Category 1 |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity - repeated exposure | Category 1 |
| Hazardous to the aquatic environment – long-term hazard | Category 4 |

GHS label elements

Pictogram



Signal word

DANGER

Hazard statement(s)

H303 – May be harmful if swallowed.
 H304 – May be fatal if swallowed and enters airways.
 H332 – Harmful if inhaled.
 H361 – Suspected of damaging fertility or the unborn child.
 H372 – Causes damage to organs through prolonged or repeated exposure.
 H413 – May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P201 – Obtain special instructions before use.
 P202 – Do not handle until all safety precautions have been read and

| | |
|---|--|
| | <p>understood.</p> <p>P260 – Do not breathe dust/fumes/gas/mist/vapours/spray.</p> <p>P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray.</p> <p>P264 – Wash skin thoroughly after handling.</p> <p>P270 – Do not eat, drink or smoke when using this product.</p> <p>P271 – Use only outdoors or in a well-ventilated area.</p> <p>P273 – Avoid release to the environment.</p> <p>P281 – Use personal protective equipment as required.</p> <p>P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P308+P313 – IF exposed or concerned: Get medical advice/attention.</p> <p>P312 – Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P314 – Get medical advice/attention if you feel unwell.</p> <p>P405 – Store locked up.</p> <p>P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.</p> |
| Other hazards which do not result in classification | Not available |

3. Composition/Information on Ingredients

| Components | CAS No. | Concentration % |
|--|------------|-----------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | >95 |
| Additive Package | CBI | Confidential |

4. First Aid Measures

| | |
|---|--|
| <p>Description of first aid measures</p> <p>Inhalation</p> <p>Skin contact</p> <p>Eye contact</p> <p>Ingestion</p> | <p>Remove from further exposure.</p> <p>Wash contact areas with soap and water. If irritation occurs, get medical assistance</p> <p>Flush thoroughly with water for 15 minute. If irritation occurs, get medical assistance.</p> <p>If swallow, DO NOT induce vomiting. Keep at rest. Get prompt medical attention</p> |
| <p>Indication of any immediate medical attention and special treatment needed :</p> | Treat symptomatically |

5. Fire Fighting Measures

| | |
|---|---|
| <p>Extinguishing media</p> <p>Suitable extinguishing media</p> <p>Unsuitable extinguishing media</p> | <p>Use foam, dry chemical or carbon dioxide.</p> <p>Water jet</p> |
| <p>Special hazards arising from the substance or mixture</p> | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons and |

| | |
|---|---|
| | soot. These may be highly dangerous if inhaled. |
| Special protective equipment and precautions for fire-fighters | Wear self-contained breathing apparatus for firefighting. Use water spray to cool unopened containers. |

6. Accidental Release Measure

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. |
| Environmental precautions | Do not let product enter drains. |
| Methods and materials for containment and cleaning up | For small spills, add absorbent or sand , scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. |

7. Handling and Storage

| | |
|---|--|
| Precautions for safe handling | Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. |
| Conditions for safe storage, including any incompatibilities | Keep container tightly closed. Keep container in a cool, well-ventilated area. |

8. Exposure Controls/Personal Protection

| | |
|---|--|
| Control parameters | Not establish |
| Appropriate engineering controls | Use ventilation, local exhaust ventilation |
| Personal protective equipment Respiratory protection Skin protection Eye/face protection Body Protection | Breathing protection. Use filter respirator suitable for organic vapours Protective gloves. Wear safety goggles, safety glass Chemical suit |
| Work / Hygienic Practices: | Do not eat, drink, or smoke during work. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. |

9. Physical and Chemical Properties

| | |
|--|----------------------------------|
| Appearance and Color: | light brown liquid |
| Odour: | Characteristic |
| Melting point/freezing point: | ≥-6 °C |
| Initial boiling point and boiling range: | >280 °C |
| Flash point: | >240 °C |
| Upper/lower flammability or explosive limits: | Lower : 1% v/v - Upper : 10% v/v |

| | |
|--------------------------|---|
| Vapour pressure: | Less than 0.5 x 10 ⁻³ kPa at 20 °C |
| Relative density: | 0.86-0.90 |
| Water solubility: | Insoluble |
| Viscosity | 130-720 mm ² /sec at 40 °C |

10. Stability and Reactivity

| | |
|---|-----------------------------------|
| Reactivity | Not available |
| Chemical stability | Stable |
| Possibility of hazardous reactions | Will not occur |
| Conditions to avoid | Heat, flames and sparks. sunlight |
| Incompatible materials | Strong oxidized |
| Hazardous decomposition products | Not available |

11. Toxicological Information

| | |
|---|---|
| Information on the likely routes of exposure | |
| Inhalation : | Minimally Toxic. Based on assessment of the components. |
| Skin contact : | Minimally Toxic. Based on assessment of the components. |
| Eye contact : | Minimally Toxic. Based on assessment of the components. |
| Ingestion : | Minimally Toxic. Based on assessment of the components. |
| Numerical measures of toxicity | |
| Classification of Health Hazards | |
| Acute oral toxicity | ATE _{mix} 2000 - 5000 mg/kg May be harmful if swallowed |
| Acute dermal toxicity | Not classified |
| Acute inhalation toxicity | ATE _{mix} 1.0-5 mg/l Harmful if inhaled |
| Skin corrosion / irritation | Not classified |
| Serious eye damage/eye irritation | Not classified |
| Respiratory or skin sensitization | Not possible to clarified |
| Germ cell mutagenicity | Not possible to clarified |
| Carcinogenicity | Not possible to clarified |
| Reproductive toxicity | Suspected of damaging fertility or the unborn child |
| Specific target organ toxicity - single exposure | Not possible to clarified |
| Specific target organ toxicity - repeated exposure | Causes damage to organs through prolonged or repeated exposure |
| Aspiration hazard | May be fatal if swallowed and enters airways |

12. Ecological Information

| | |
|------------------------------------|---------------------------|
| Ecotoxicity | |
| Acute (Short- term) aquatic hazard | Not possible to clarified |
| Long-term aquatic hazard | Not possible to clarified |

| | |
|--------------------------------------|-------------------|
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| Other adverse effects | No data available |
| Environmental effects | No data available |

13. Disposal Considerations

| | |
|--------------------------------|--|
| Waste treatment methods | Dispose in accordance with local/national/international regulations. |
| Contaminated packaging | Dispose of container in accordance with local/national /international regulations. |

14. Transport Information

| | |
|-------------------------------------|----------------------------------|
| UN number | Not regulated as dangerous goods |
| UN proper shipping name | Not regulated as dangerous goods |
| Transport hazard class (es) | Not regulated as dangerous goods |
| Packaging group | Not classified |
| Environmental hazards | No data available |
| Transport in bulk | No data available |
| Special precautions for user | No data available |

15. Regulatory Information

| | |
|---|--|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material is considered hazardous according to the classification criteria of the Hazard Classification and Communication System for Hazardous Materials BE 2555. Thailand |
| Chemical Safety Assessment | For this product a chemical safety assessment was not carried out |

16. Other Information

Created: February 25, 2019

Updated: January 1, 2023

Reference

- National Institute of Technology and Evaluation (SAFE NITE)
http://www.safe.nite.go.jp/english/ghs/ghs_index.html
- Globally Harmonized System of Classification and Labelling of Chemical (GHS), United Nation, 2011

The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which results directly or indirectly from the use of such information, nor do we offer any warranty of immunity against patent infringement.

