

Material Safety Data Sheet

1. Product and company identification

- a) Product Name: Blue 464
- b) Recommended use of the chemical and restrictions on use:
- Recommended use :
 - Restrictions on use : N/A
- c) Manufacturer/Supplier/Distributor Information Name, Address, Emergency or Information Contact, Responsible department
- Manufacturer and Supplier :
 - Address :
 - Emergency of Information Contact :
 - Responsible department : Marketing and Strategic planning

2. Hazards identification

- a) Hazard·Risk Classification:
- Not applicable
- b) Label elements including precautionary statements
- Symbol: No information available
 - Signal Word: No information available
 - Hazard·Risk Statement: No information available
 - Precautionary Statement:
 - P202 Do not handle or use before understanding the whole content of the safety precautions.
 - P261 Do not contact with skin and do not inhale, or swallow the powder, fume, or mist.
 - P280 Wear chemical safety goggles and rubber gloves
 - P264 Wash thoroughly with plenty of water after handling
 - Storage:
 - P404 Keep tightly closed.
 - P402+P410+P235 Store in a cool and dry place without direct light.
 - Disposal:
 - P501 Dispose of properly according to the relevant regulations and / or applicable laws of the country
- c) Other Hazard·Risk which are not included in the classification criteria (e.g. dust explosion hazard): No information available

3. Composition/Information on ingredients

| Chemical Name | Other name | CAS number or Other identification number | Content (%) |
|---------------|------------|---|-------------|
| Trade Secret | N/A | Trade Secret | >99.0 |

4. First aid measures

- a) Eye contact: Flush with copious amounts of water for at least 15minutes. Call a physician.
- b) Skin contact: Immediately wash skin with soap and copious amounts of water.
- c) Inhalation: Ventilate the area and move to fresh air. Call a physician.
- d) Ingestion: Move to fresh air. Call a physician.
- e) Acute and delayed symptoms/effects: N/A
- f) Indication of immediate medical attention and notes for physician : N/A

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| 5. Fire-Fighting measures |
| <p>a) Suitable (and unsuitable) extinguishing media: Water, CO₂</p> <p>b) Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products): N/A</p> <p>c) Special protective equipment and precautions for fire-fighters: No flammable</p> |
| 6. Accidental release measures |
| <p>a) Personal precautions, protective equipment and emergency procedures: Protective goggles, respirator and gloves</p> <p>b) Environmental precautions and protective procedures: Completely collect and sweep up with appropriate protective wearings.</p> <p>c) Methods and materials for containment and cleaning up: Thorough cleaning with ethanol after collect.</p> |
| 7. Handling and storage |
| <p>a) Precautions for safe handling: N/A</p> <p>b) Conditions for safe storage (including any incompatibilities): Keep tightly closed. Store in a cool and dry place.</p> |
| 8. Exposure controls & personal protection |
| <p>a) Control parameters (e.g. occupational exposure limit values, biological limit values): N/A</p> <p>b) Appropriate engineering controls: Safety shower, eye bath, and mechanical exhaust required.</p> <p>c) Personal protective equipment</p> <ul style="list-style-type: none"> - Respiratory protection: Respirator is required in case of repeated use or exposure. - Eye protection: Wear protective goggles for preventing eye contact with the power or mist. - Hands protection: Wear chemical-resistant rubber gloves. - Body protection: Wear chemical-resistant cloth. |
| 9. Physical and chemical properties |
| <p>a) Appearance (physical state, color etc): Solid power, Greenish white</p> <p>b) Odour: None</p> <p>c) Odour threshold: None</p> <p>d) pH: N/A</p> <p>e) Melting point/freezing point: N/A</p> <p>f) Initial boiling point and boiling range: N/A</p> <p>g) Flashing point : N/A</p> <p>h) Evaporation rate: N/A</p> <p>i) Flammability (solid, gas): N/A</p> |
| <p>j) Upper/lower flammability or explosive limits: N/A</p> <p>k) Vapor pressure: N/A</p> <p>l) Solubility: N/A (soluble to some organic solvents)</p> <p>m) Vapor density: N/A</p> <p>n) Relative density: N/A</p> <p>o) Partition coefficient: n-octanol/water: N/A</p> <p>p) Auto-ignition temperature: N/A</p> <p>q) Decomposition temperature: N/A</p> <p>r) Viscosity: N/A</p> <p>s) Formula mass: Trade Secret</p> |
| 10. Stability and reactivity |

- a) Chemical stability: Stable under atmospheric conditions (1atm, 25°C)
- b) Possibility of hazardous reactions: None. May not be polymerized and / or react with other chemicals.
- c) Conditions to avoid: Avoid contact with thermal source, light, water, and oxidizing agent.
- d) Incompatible materials: Water, Oxidizing agent
- e) Hazardous decomposition products: CO_x; H₂O, Ash

11. Toxicological information

- a) Information on the likely routes of exposure
 - by respiratory organ: Irritation, Headache, Intoxication
 - by mouth: Headache, Intoxication
 - by skin and contact: Irritation
- b) Delayed and immediate effects as well as chronic effects from short- and long-term exposure
 - Acute toxic: N/A
 - Skin corrosive/irritant: N/A
 - Serious eye damage/eye irritation: N/A
 - Respiratory sensitization: N/A
 - Skin sensitization: N/A
 - Carcinogenicity: N/A
 - Germ Cell Mutagenicity : N/A
 - Reproductive toxicity: N/A
 - Specific target organ toxicity (single exposure): N/A
 - Specific target organ toxicity (repeated exposure): N/A
 - Hazardous to the aquatic environment: N/A
 - Aspiration hazard: N/A
- c) Numerical measures of toxicity (such as acute toxicity estimates, etc) : N/A

12. Ecological information

- a) Aquatic and terrestrial ecotoxicity: N/A
- b) Persistence and degradability: N/A
- c) Bioaccumulative potential: N/A
- d) Mobility in soil: N/A
- e) Other adverse effects: N/A

13. Disposal considerations

- a) Disposal method: Follow the regulations and / or relative laws.
- b) Disposal precaution (including the disposal method of contaminated container / packaging): Follow the regulations and / or relative laws.

14. Transport information

- a) UN number: N/A
- b) UN proper shipping name: N/A
- c) Transport hazard class: 0 (considered to be non-hazardous for transportation)
- d) Packing group (if applicable): 0
- e) Marine pollution (yes/no): N/A
- f) Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either

within or outside their premises : No other precautions are required, except avoiding contact with such as eyes and skin.

15. Regulatory information

- a) Industrial Safety and Health Act: N/A
- b) Toxic Chemical Control Act: N/A
- c) Dangerous Material Safety Control Act: N/A
- d) Wastes Management Act: N/A
- e) Other requirements in domestic and other countries: Follow all the regulations and / or laws in the country
 - US OSHA (29CFR1910.119) : N/A
 - CERCLA 103 (40CFR302.4) : N/A
 - EPCRA 302 (40CFR355.30) : N/A
 - EPCRA 304 (40CFR355.40) : N/A
 - EPCRA 313 (40CFR372.65) : N/A

16. Other information

- a) Information source and references: www.kosha.or.kr www.nfpa.org
- b) Issuing date: Jan. 02, 2017
- c) First issuing date: Jan. 02, 2017
- d) Revision number and date: Revision 1.1E, Jan. 02, 2017
- e) others: