

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND MANUFACTURER IDENTIFICATION

PRODUCT NAME **HUMICOTE (Control Release Fertilizer)**
SUPPLIER NAME HUMIBOX (M) SDN. BHD.
SUPPLIER ADDRESS Lot 1033, Tingkat 3, Batu 7, Jalan Ipoh, 68100 Batu Caves, Selangor D.E., Malaysia.
Tel: +603-6185 1898 Fax: +603-6185 6898

MATERIAL USE Agricultural use

2. COMPOSITION / INFORMATION ON INGREDIENTS

N-K-P (NITROGEN-PHOSPHORUS-POTASSIUM) MIXED DRY BLENDED FERTILIZERS – No hazardous ingredient exceeds 1% of mixture

| Chemical Ingredients | Percentage by Weight | CAS No. | TLV (Units) |
|--|----------------------|---------|-------------|
| Total Nitrogen (N) | 17 | Mixture | not listed |
| Available Phosphate (P ₂ O ₅) | 8 | Mixture | not listed |
| Soluble Potash (K ₂ O) | 9 | Mixture | not listed |
| Trace element (Te) | 1 | Mixture | not listed |

3. HAZARDS IDENTIFICATION

KEEP OUT OF REACH OF CHILDREN – May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, or sores. In cases of contact, flush with water. Get medical attention for eyes. This blended dry fertilizer is mixture of Ammonium Sulfate, Calcium Carbonate, Monoammonium Phosphate, Muriate of Potash, and Polymer Coated-Sulfur Coated Urea. Nausea and vomiting could be expected upon large dose ingestion. The acute digestive effects are described as nausea, chills, and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer dusts. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.

This product is a multi-colored granule with dusty odor. Primary routes of entry are inhalation, eye contact and skin contact.

4. FIRST - AID MEASURES

If in Eyes: Flush with clean running water for at least 15 minutes. If irritation persists, get medical attention.
If on Skin: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, or if rash develops, get medical attention.
If Swallowed: If conscious, drink 1 or 2 glasses of water. Get medical attention. Never induce vomiting or give anything by mouth to an unconscious person.
If Inhaled: Remove to fresh air. If irritation persists, get medical attention.

5. FIRE FIGHTING MEASURE

FLASH POINT (F/Test Method): Not applicable
FLAMMABLE LIMITS (LFL & UFL): Not applicable
EXTINGUISHING MEDIA: Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, CO₂, foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCT: May include but are not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfide, and cyanuric acid.

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SPECIAL FIRE FIGHTING Wear self contained breathing apparatus and full protective gear.

PROCEDURES:

UNUSUAL FIRE AND EXPLOSION Sulfur-containing components may release oxides of sulfur.

HAZARDS:

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing dusts and vapors. Sweep up dry spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

Handling Avoid breathing fertilizer dust. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after handling this product.

Storage Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area, preferably in a locked storage area away from children, feed and food products and seed. Store at ambient temperatures. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING Not normally required.

CONTROLS:

RESPIRATORY Not normally required. If vapors or dusts exceed acceptable levels, wear a NIOSH approved pesticide respirator.

PROTECTION:

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure Emissions from ventilation or work process equipment should be checked to ensure controls they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical state | Solid. |
| Flash point | [Product does not sustain combustion.] |
| VOC | 0 % (w/w) |
| Appearance and Odor | Multi-colored granules with dusty odor |

10. STABILITY AND REACTIVITY

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| Chemical stability | The product is stable. |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Hazardous polymerization | Under normal conditions of storage and use, hazardous polymerization will not occur. |
| Conditions to avoid | No specific data. |
| Materials to avoid | No specific data. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Conditions of reactivity | Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge. |

11. TOXICOLOGICAL INFORMATION

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|----------------------------------|---|
| Acute Oral LD50 (rat): | >5000 mg/kg |
| Acute Dermal LD50 (rabbit): | >5000 mg/kg |
| Eye Irritation (rabbit): | May cause irritation |
| Skin Irritation (rabbit): | May cause irritation in sensitive individuals |
| Inhalation LC50 (rat): | May cause respiratory tract irritation |
| Skin Sensitization (guinea pig): | Not established |
| Carcinogenic Potential: | None listed in OSHA, NTP, IARC or ACGIH |

12. ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

13. DISPOSAL CONSIDERATIONS

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| Waste disposal | The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
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RCRA classification Not listed under RCRA

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION for additional handling information and protection of employees.

14. TRANSPORT INFORMATION

D.O.T. CLASSIFICATION: N/A

D.O.T. LABEL REQUIREMENTS: N/A

REPORTABLE QUANTITY: N/A

REPORTABLE QUANTITY: N/A

U.N. # / N.A. #: N/A

S.T.C.C. NUMBER: N/A

NOT REGULATED BY D.O.T. PER 49 CFR 172.101

15. REGULATORY INFORMATION

OSHA STATUS: 29 CFR 1910.1200.

TSCA STATUS: see 2. COMPOSITION/INFORMATION ON INGREDIENTS

CERCLA REPORTABLE QUANTITY (40CFR117,302): None

SARA TITLE III

SECTION 302 (40 CFR 355) :None

SECTION 311/312 (40 CFR 370)

1. Immediate (Acute) Health Effect ; No
2. Delayed (Chronic) Health Effect; No
3. Fire Hazard; No
4. Sudden Release of Pressure Hazard; No
5. Reactivity Hazard; No

SECTION 313 (40 CFR 372) :None

Please refer to any other federal, state and local regulations.

16. OTHER INFORMATION

MSDS Creation Date: 1/1/2022

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.
