

Material Safety Data Sheet

SECTION 1. Chemical Product and Company Identification

PRODUCT NAME	Amcopaste 8-11-28
TRADE NAME	Amcopaste 8-11-28
CHEMICAL NAME	Not applicable; mixture of essential plant nutrients.
CHEMICAL FORMULA	Not applicable; Mix of inorganic materials
CHEMICAL FAMILY	Chemical fertilizer
SYNONYM	NPK Fertilizer with micronutrients

MSDS prepared by the quality management of MCFP



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SECTION 2. Hazardous Ingredients

Exposure Limits (ACGIH)

NAME	CAS #	TLV-TWA mg/m ³ ppm	STEL mg/m ³ ppm	CEIL mg/m ³ ppm	% by Weight
No regulated components	No regulated components	No regulated components	No regulated components	No regulated components	No regulated components

TOXICOLGICAL DATA ON INGREDIENTS

Not applicable. This product is not considered hazardous and All ingredients are free of radiation based on the Jordanian Energy Authority Tests and laboratories of the Jordanian Agriculture Ministry.

SECTION 3. Hazards Identification

POTENTIAL HEALTH EFFECTS ACUTE	This product may irritate eyes and skin upon prolonged or repeated contact from mechanical action and the drying effect of mineral salts. Over-exposure by inhalation may cause respiratory tract irritation. Ingestion of this substance may produce irritation of the gastrointestinal tract, characterized by burning and diarrhea.
POTENTIAL HEALTH EFFECTS CHRONIC	There is no known effect from chronic exposure to this product.
EYE CONTACT	May cause eye irritation.
MINOR SKIN CONTACT	May cause skin irritation due to the drying action of mineral salts.
EXTENSIVE SKIN CONTACT	May cause light sensitivity
MINOR INHALATION	Repeated or prolonged inhalation of dust may lead to respiratory irritation.
SEVERE INHALATION	Over-exposure by inhalation may cause respiratory irritation.
SLIGHT INGESTION	Remove dentures if any. If conscious, have the person drink several glasses of water or milk and induce vomiting. Never give anything by mouth to an unconscious person. Lower the head so that the vomit will not reenter the mouth or throat. Obtain medical attention.
EXTENSIVE INGESTION	No additional information.

SECTION 4. First Aid Measures

EYE CONTACT	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Obtain medical attention if irritation persists.
SKIN CONTACT	Wash contaminated skin with soap and water. Cover irritated skin with an emollient. If irritation persists, obtain medical attention. Wash contaminated clothing before reusing.
MINOR INHALATION	Loosen tight clothing around the individual's neck and waist. Allow the person to rest in a well-ventilated area. Obtain medical attention if irritation persists.
SEVERE INHALATION	In emergency situations use proper respiratory protection to evacuate the victim to a safe area as soon as possible. Loosen tight clothing around the victim's neck and waist. Allow the victim to rest in a well-ventilated area. Oxygen may be administered if breathing is difficult. If the victim is not breathing, perform artificial respiration. Obtain immediate medical attention.
INGESTION	Remove dentures if any. If conscious, have the person drink several glasses of water or milk and induce vomiting. Never give anything by mouth to an unconscious person. Lower the head so that the vomit will not reenter the mouth or throat. Obtain medical attention.

SECTION 5. Fire and Explosion Data

AUTOR-IGNITION TEMPERATURE	Not applicable
FLASH POINT	Non flammable
FLAMMABILITY LIMITS	Not flammable
PRODUCTS OF COMBUSTION	Material will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and combustible gases: ammonia, nitrogen oxides, sulfur oxides, phosphorous oxides, and potassium oxides.

FIRE HAZARD IN THE PRESENCE OF VARIOUS SUBSTANCES	Not applicable
EXPLOSION HAZARD IN THE PRESENCE OF VARIOUS SUBSTANCES	This product is no-explosive
EXPLOSION HAZARD IN THE PRESENCE OF VARIOUS SUBSTANCES	This product is no-explosive
FIRE FIGHTING MEDIA AND INSTRUCTIONS	Material will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and combustible gases. Use extinguishing media suitable for surrounding materials.
SPECIAL REMARKS ON FIRE HAZARDS	Non-combustible. Flammable/toxic gases will form at elevated temperatures (>190 °C) by thermal decomposition (ammonia, sulfur oxides, nitrogen oxides, phosphorous oxides). A self-contained breathing apparatus should be used to avoid inhalation of toxic fumes.
SPECIAL REMARKS ON EXPLOSION HAZARDS	No additional remarks.
SECTION 6. Accidental Release Measures	
SMALL SPILL	Use appropriate tools to put the spilled solid in a suitable container for intended use or disposal
LARGE SPILL	Prevent additional discharge of materials, if possible, to do so without hazard. Prevent spills from entering sewers, watercourses, wells, etc. Product will promote algae growth and may degrade water quality and taste. Notify downstream water users. Recover and place material in suitable containers for recycle, reuse, or disposal. Ensure disposal is in compliance with government requirements and local regulations

SECTION 7. Handling and Storage

HANDLING	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep container tightly closed. Do not get on skin or in eyes. Discard contaminated shoes
STORAGE	Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area. Store away from alkalis, Keep material out of the reach of children.

SECTION 8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS	Uses process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If uses operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limits.
PERSONAL PROTECTION	The selection of personal protection equipment varies, depending upon conditions of use. Where skin and eye contact may occur as a result of brief periodic exposures, wear long sleeve clothing, coveralls, leather gloves, and safety glasses.
PERSONAL PROTECTION IN CASE OF LARGE RELEASE	Work practice or other control measures are not adequate to prevent overexposure. Where skin and eye contact may occur as a result of prolonged or repeated exposures.
EXPOSURE LIMITS	Does not emit gases and dust in the appropriate Storage conditions.

SECTION 9. Physical and Chemical Properties

PHYSICAL STATE AND APPEARANCE	Paste
MOLECULAR WEIGHT	Not available
COLOR	Red-Pink
pH (1/100)	2.2
E.C (1/1000)	1.2 mS
SOLUBILITY IN WATER	200 gm/1000 ml. Easily soluble in hot and cold water.
VOLATILITY	Not applicable
MELTING POINT	Not available
CRITICAL TEMPERATURE	Not available
Density	1.75-1.85 g/cm ³
DISPERSION PROPERTIES	See solubility in water
VAPOR PRESSURE	Not applicable
VAPOR DENSITY	Not applicable

SECTION 10. Stability and Reactivity Data

STABILITY	The product is stable under suitable condition
INSTABILITY TEMPERATURE	More than 70C / less than 10C
INCOMPATIBILITY WITH VARIOUS SUBSTANCES	Slightly reactive to reactive with oxidizing agents. Very slightly to slightly reactive with metals, moisture.
CORROSIVITY	Highly corrosive in presence of aluminum, zinc, and copper. Slightly corrosive to steel, and 304 stainless steel. Non-corrosive to stainless steel.
SPECIAL REMARKS ON CORROSIVE ACIDS.	Avoid contact with moisture. Slow hydrolysis will produce corrosive acids.
SPECIAL REMARKS ON CORROSIVITY	Incompatible with copper alloys. Corrosive to brass. Corrosive to ferrous metals and alloys.

SECTION 11. Toxicological Information

SIGNIFICANT ROUTS OF EXPOSURE	Ingestion. Inhalation
TOXICITY TO ANIMALS	Acute oral toxicity (LD 50):>3000 mg /1 Kg (Rat)
SPECIAL REMARKS ON TOXICITY TO ANIMALS	Very low toxicity for humans or animals. Will release ammonium ions. Ammonia is a toxic hazard to fish. May be harmful to livestock and wildlife if ingested.

	Clean up all spilled material, especially where bulk fertilizer loading of equipment occurs.
OTHER EFFECTS ON HUMANS	Our data base contains no additional remark on the toxicity of this product.
SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS	No additional remarks
SPECIAL REMARKS ON OTHER EFFECTS ON HUMANS	No additional remarks.
SECTION 12. Ecological Information	
ECOTOXICITY	Non-persistent. Non-cumulative when applied using normal agricultural practices. Low toxicity for humans or animals under normal conditions of use. May be harmful to livestock and wildlife if ingested. Clean up all spilled material, especially where bulk fertilizer loading of equipment occurs to prevent animal exposure.
BOD and COD	Not available
PRODUCTS OF DEGRADATION	Nitrogen oxides (NO, NO ₂ ...), Sulfur oxides (SO ₂ , SO ₃ ,...) phosphates
TOXICITY OF THE PRODUCTS OF DEGRADATION	The products of biodegradation are not harmful under normal conditions of slow metabolic release.
SPECIAL REMARKS ON THE PRODUCTS OF DEGRADATION	May degrade water quality and taste. Notify downstream water users. Sulfates in potable drinking water should be maintained below 500 mg/L. Will dissolve and disperse in water. Reclaiming material may not be viable.

SECTION 13. Disposal Consideration

Waste Disposal or Recycling	Recycle to process, if possible. Ensure disposal is in compliance with government requirements and local regulations. Consult your local or regional authorities.
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SECTION 14. Transport Information

DOT/TDG CLASSIFICATION	Not controlled under TDG (Canada) or D.O.T. (U.S.A.)
PIN	Not applicable (PIN or PG)
SPECIAL PROVISIONS FOR TRANSPORT	Not applicable
UN-Number	None
UN proper shipping name	None
Transport hazard class(es)	None
Environmental hazards	None

SECTION 15. Regulatory Information

The product use	Agricultural purposes
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SECTION 16. Other Information

This MSDS is made by the quality management of MCFP.

The information and recommendations contained herein are believed to be current and correct as of the date of this MSDS.

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release.