Coastal AgroBusiness, Inc.

Safety Data Sheet

SDS Number: 10390
SDS Prepared: 02/15/2008
SDS Version: 3.4
Version Date: 05/12/2025

Check MH15

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Check MH15

CHEMICAL NAME: Maleic Hydrazide

CHEMICAL FAMILY: Pyridazine

SYNONYMS: Maleic Hydrazide, MH

COMMON NAME: Maleic Hydrazide potassium salt

EPA REGISTRATION NUMBER: 5549-89

Manufactured by:
Coastal AgroBusiness, Inc.
PO Box 856
Greenville, NC 27835
Phone: 1-800-635-1388

Emergency Telephone Numbers
Chemtrec (24 hours)
1-800-424-9300
Coastal AgroBusiness, Inc. (Weekdays – Eastern Standard Time)
1-800-635-1388

2. HAZARDS IDENTIFICATION SUMMARY

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS-US Classification

Skin Irritant 2	H315
Eye Irritant 2B	H320

LABEL ELEMENTS

GHS-US Labeling

Hazard Pictogram (GHS-US)



GHS07

SIGNAL WORD (GHS-US)

WARNING

HAZARD STATEMENTS (GHS-US)

H315 - Causes skin irritation.
H320 - Causes eye irritation.

PRECAUTIONARY STATEMENTS (GHS-US)

P102 - Keep out of reach of children.
P203 - Obtain, read, and follow all safety instructions before use.
P260 - Do not breathe dust/fumes/gas/mist/vapors/spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink, or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338+P315 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed and cool.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	PEL/TLV
Maleic Hydrazide, potassium salt (1,2-Dihydro-3,6-pyridazinedione, potassium salt)	21.67%	28382-15-2	NE/NE
Inert Ingredients	78.43%		NE/NE

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least fifteen minutes, holding eyelids apart to ensure flushing of the entire eye surface. Do not let victim rub eyes. Seek medical attention.

SKIN: Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.

INGESTION: Call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

INHALATION: Remove person from area of exposure. Give artificial respiration if necessary. If breathing is difficult, give oxygen if a qualified operator is available. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (◦F/Test Method): >200°F (100°C) TCC

FLAMMABLE LIMITS (LFL & UFL): Not established

EXTINGUISHING MEDIA: Large fires: Alcohol-type foams or universal-type foams.
Small fires: water spray, dry chemical, or CO_2
Unsuitable: Water jets
Do not discharge extinguishing water into streams, rivers, and lakes.

HAZARDOUS COMBUSTION PRODUCTS: Irritating fumes, carbon oxides, and nitrogen oxides.

SPECIAL FIRE FIGHTING PROCEDURES: Cool exposed equipment with water spray. Self-contained positive-pressure breathing apparatus should be worn when there is a possibility of exposure to smoke, fumes, or hazardous decomposition products. If the spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire and to dilute spills to nonflammable mixtures.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire or excessive heat may release nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Soak up with absorbent materials, shovel into a suitable container for disposal.

LARGE SPILLS: Dike to contain the spill. Pump excess material into a suitable container (metal drums, metal tank, or such).

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. If containers are exposed to excessive heating, the contents can be remixed by lowering the temperature of the entire formulation below 134°F and applying agitation. Always shake or stir well before use.

STORAGE: Store away from sources of direct heat in a dry area. Store below 220°F (104°C). See package label for details. The active ingredient will separate from the surfactant at temperatures above 134°F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THRESHOLD LIMIT VALUE:	Maleic Hydrazide, potassium salt 5 mg/m^3
PERMISSIBLE EXPOSURE LIMIT:	Not established
SIGNS AND SYMPTOMS OF EXPOSURE:	Contact with the skin and eyes can cause irritation.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:	Dermatitis
PRIMARY ROUTES OF ENTRY:	Inhalation and Dermal
ENGINEERING CONTROLS:	General room ventilation is expected to be satisfactory. Local ventilation is needed in the presence of airborne mists, sprays, or aerosols, and/or high vapor concentrations.
RESPIRATORY PROTECTION:	In the absence of adequate ventilation, use a NIOSH-certified pesticide cartridge respirator.
EYE PROTECTION:	When contact with the liquid is possible, use a face shield or splash goggles; otherwise, use safety glasses.
SKIN PROTECTION:	Use full protective clothing, boots, and gloves when in contact with liquid.
INGESTION:	Avoid ingestion of even very small amounts. Do not consume or store food or tobacco in the work area. Wash hands and face before smoking or eating.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND PHYSICAL STATE:	Yellow liquid
ODOR:	Odorless
SPECIFIC GRAVITY (Water=1):	Not determined
VAPOR PRESSURE:	Not determined
VAPOR DENSITY (Air = 1):	Not determined
% VOLATILITY (V/V):	Not determined
BOILING POINT:	220°F (104.4°C)
FLASH POINT:	200°F (93.3°C)
MELTING POINT:	Not Determined
SOLUBILITY:	Completely miscible
pH:	8.0 - 10.0
VISCOSITY @ 68°F (20°C):	Not determined

Note: These physical data are typical values based on material tested, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY:	Thermally stable at typical use temperatures and in closed containers.
CONDITIONS TO AVOID:	Heat of an open flame and temperatures higher than 130°F (54.4°C)
INCOMPATIBILITY:	Strong bases, acids, and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon oxides and nitrogen oxides.
HAZARDOUS POLYMERIZATION:	Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD_{50}:	>5000 mg/kg body weight
ACUTE DERMAL LD_{50}:	>5000 mg/kg body weight
ACUTE INHALATION LC_{50}:	2.04 mg/L
EYE IRRITATION:	Mildly irritating

CARCINOGENIC POTENTIAL: Not classified
SKIN IRRITATION/SENSITIZATION: Slightly irritating. Non-sensitizer.
SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE: No data available
ASPIRATION HAZARD: None known
GERM CELL MUTAGENICITY: Not classified
REPRODUCTIVE TOXICITY: Not classified

12. ECOLOGICAL INFORMATION

TOXICOLOGY

AQUATIC TOXICITY

Rainbow Trout: LC_{50}: >1000 mg/L Exposure Time: 96 Hours (Potassium Salt)
Bluegill Sunfish: LC_{50}: 1608 mg/L Exposure Time: 96 Hours (Potassium Salt)
Water Flea: LC_{50}: >1000 mg/L Exposure Time: 48 Hours (Potassium Salt)

ARTHROPOD TOXICITY

Bees: Acute LD_{50}: >100 mg/bee (Maleic Hydrazide)

BIRD TOXICITY

Mallard Duck: LD_{50}: >4640 mg/kg (Maleic Hydrazide)

PERSISTENCE AND DEGRADABILITY: Not persistent in the environment
BIOACCUMULATIVE POTENTIAL: Not established
MOBILITY IN SOIL: Mobile, especially in sandy soils
OTHER INFORMATION: Avoid release to the environment

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of contents/container in accordance with local, regional, national, and international regulations. The container may remain hazardous when empty. Continue to observe all precautions. Avoid release to the environment.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Description: NOT REGULATED BY DOT.
Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

	NFPA		HMIS	
	1 Health	0 Reactivity	1 Health	0 Reactivity
	1 Flammability		1 Flammability	C PPE

SARA Hazard Notification/Reporting
SARA Title III Hazard Category: Immediate: Y Fire: N Sudden Release of Pressure: N
Delayed: N Reactive: N
Reportable Quantity (RQ) under U.S. CERCLA: 2463 gallons of product
5000 pounds of active ingredient (Maleic Hydrazide)
SARA, Title III, Section 313: Contains no chemical subject to SARA 313
SARA, Title III, Section 302: EHS: None
TPQ: 10,000 lbs.
RCRA Waste Code: Not listed
CA Proposition 65: Not listed

16. OTHER INFORMATION

SDS STATUS: Updated
REASON FOR CHANGE: Updated Technical Information
PREPARED BY: Emma Simpson, Product Development Specialist - Chemist

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