

## Safety Data Sheet

# CHECK MH-15

SDS Number: 10390  
SDS Prepared: 02/15/2008  
SDS Version: 3.3  
Version Date: 10/4/2024

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CHECK MH-15  
**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)

#### HAZARD STATEMENTS (GHS-US)

#### PRECAUTIONARY STATEMENTS (GHS-US)

Warning  
H315- Causes skin irritation.  
H320- Causes eye irritation.  
P102 - Keep out of reach of children.  
P203 - Obtain, read and follow all safety instructions before use.  
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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
 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

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>PEL/TLV</u>
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

<b>EYES:</b>	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.
<b>SKIN:</b>	Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.
<b>INGESTION:</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center. DO NOT give anything by mouth to an unconscious person.
<b>INHALATION</b>	Remove person from area of exposure. Give artificial respiration if necessary. If breathing is difficult, give oxygen if qualified operator is available. Seek immediate medical attention.

### 5. FIRE FIGHTING MEASURES

<b>FLASH POINT (°F/Test Method):</b>	>200°F (100°C) TCC
<b>FLAMMABLE LIMITS (LFL &amp; UFL):</b>	Not established
<b>EXTINGUISHING MEDIA</b>	<b>Large fires:</b> alcohol type foams or universal-type foams. <b>Small fires:</b> Water spray, dry chemical, CO2. <b>Unsuitable:</b> Water jets. Do not discharge extinguishing waters into streams, rivers and lakes. Irritating fumes, oxides of carbon, oxides of nitrogen
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	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 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 oxides of nitrogen.

**6. ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:****Small spills:** Absorb on inert material. Shovel into secure containers for proper disposal.**Large spills:** Dike to contain spill. Pump excess material into suitable container (metal drums, metal tank, or such).**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.**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**

<b>THRESHOLD LIMIT VALUE:</b>	Maleic Hydrazide Potassium Salt 5 mg/m <sup>3</sup>
<b>PERMISSIBLE EXPOSURE LIMIT:</b>	Not established
<b>SIGNS AND SYMPTOMS OF EXPOSURE:</b>	Contact with skin and eyes can cause severe irritation
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:</b>	Dermatitis
<b>PRIMARY ROUTES OF ENTRY:</b>	Inhalation, absorption
<b>ENGINEERING CONTROLS:</b>	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.
<b>RESPIRATORY PROTECTION:</b>	In the absence of adequate ventilation, use NIOSH-certified pesticide cartridge respirator.
<b>EYE PROTECTION:</b>	When contact with liquid is possible, use a face shield or splash goggles, otherwise use safety glasses.
<b>SKIN PROTECTION:</b>	Use full protective clothing, boots and gloves when in contact with liquid.
<b>Ingestion:</b>	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****INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Yellow
<b>Odor</b>	No odor
<b>Odor Threshold</b>	No data available
<b>pH</b>	-8-10
<b>Evaporation Rate</b>	No data available
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling Point</b>	104.4°C (220°F)
<b>Flash Point</b>	>93.3°C (200°F)
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available

Flammability (solid, gas)	No data available
Vapor Pressure	Negligible
Relative Vapor Density at 20°C	No data available
Relative Density	9.41 lbs./gal
Specific Gravity	No data available
Solubility	Complete.
Partition Coefficient: N-Octanol/Water	No data available
Viscosity	No data available

**OTHER INFORMATION** No additional information available

## 10. STABILITY AND REACTIVITY

<b>STABILITY:</b>	Thermally stable at typical use temperatures and in closed containers
<b>CONDITIONS TO AVOID:</b>	Heat of open flame and temperatures higher than 54.4°C (130°F)
<b>INCOMPATIBLE MATERIALS:</b>	Strong acids, strong bases, strong oxidizers
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of carbon and oxides of nitrogen
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur

## 11. TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Acute Oral LD<sub>50</sub>:</b>	>5,000 mg/kg
<b>Acute Dermal LD<sub>50</sub>:</b>	>5,000 mg/kg
<b>Acute Inhalation LC<sub>50</sub>:</b>	2.04 mg/L
<b>Skin Corrosion/Irritation:</b>	Slightly irritating
<b>Serious Eye Damage/Irritation:</b>	Mildly irritating
<b>Skin Sensitization:</b>	Non-sensitizer
<b>Germ Cell Mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive Toxicity:</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure):</b>	None known
<b>Aspiration Hazard:</b>	None known

## 12. ECOLOGICAL INFORMATION

### TOXICOLOGY

<b>Aquatic – Potassium Salt</b>	
Rainbow Trout	LC <sub>50</sub> : >1,000 mg/L Exposure Time: 96 hours
Bluegill	LC <sub>50</sub> : 1608 mg/L Exposure Time: 96 hours
	LC <sub>50</sub> : >1,000 mg/L Exposure Time: 48 hours
<b>Bees – Maleic Hydrazide</b>	
Acute Oral LD <sub>50</sub>	>100 mg/bee
<b>Bird Toxicity – Maleic Hydrazide</b>	
Mallard Duck	LD <sub>50</sub> : >4640 mg/kg

### PERSISTENCE AND DEGRADABILITY

<b>Persistence and Degradability</b>	Not persistent in the environment.
--------------------------------------	------------------------------------

### BIOACCUMULATIVE POTENTIAL

<b>Bioaccumulative Potential</b>	Not established.
----------------------------------	------------------

### MOBILITY IN SOIL

Mobile especially in sandy soils

### OTHER ADVERSE EFFECTS

<b>Other Information</b>	Avoid release to the environment
--------------------------	----------------------------------

## 13. DISPOSAL CONSIDERATIONS

### WASTE TREATMENT METHODS

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment.

## 14. TRANSPORTATION INFORMATION

**D.O.T.** NOT REGULATED BY DOT

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

## 15. REGULATORY INFORMATION

<b>NFPA &amp; HMIS Hazard Ratings:</b>	<b>NFPA</b> 1 Health 1 Flammability 0 Reactivity	<b>HMIS</b> 1 Health 1 Flammability 0 Reactivity C PPE
<b>SARA Hazard Notification/Reporting</b>		
<b>SARA Title III Hazard Category:</b>	Immediate: <u>Y</u>	Fire: <u>N</u>
	Delayed: <u>N</u>	Reactive: <u>N</u>
	Sudden Release of Pressure: <u>N</u>	
<b>Reportable Quantity (RQ) under U.S. CERCLA:</b>	2463 gallons of product 5000 pounds of ingredient (Maleic Hydrazide)	
<b>SARA, Title III, Section 313:</b>	Contains no chemical subject to SARA 313	
<b>SARA, Title III, Section 302:</b>		
EHS	None	
TPQ	10,000 lbs	
<b>RCRA Waste Code:</b>	Not listed	
<b>CA Proposition 65:</b>	Not listed	

## 16. OTHER INFORMATION

**SDS STATUS:** Updated  
**REASON FOR CHANGE:** Updated Technical Information  
**PREPARED BY:** Tandy O. Dunn, Director of Health, Safety & Environmental Affairs

**Disclaimer and Limitation of Liability:** This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Coastal AgroBusiness, Inc. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

Check ✓  
**Maleic  
 Hydrazide  
 15**