

# CHECK MH 15

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Emergency Phone Numbers:

Chemtrec(24 hrs): 1-800-424-9300

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## IDENTITY

Trade Name: CHECK MH-15

EPA Reg. No.: 19713-20-5549

Synonyms: Maleic Hydrazide, MH

Chemical Name: Potassium salt of

6-hydroxy-3-(2H)-pyridazinone

Common Name: Maleic Hydrazide

potassium salt

Chemical Family: Pyridazine

Molecular Formula:  $C_4H_4N_2O_2$

Molecular Weight: 112.09

## INGREDIENT

Component	CAS NO.	WT%	PEL/TLV
Potassium salt of 6-hydroxy-3-(2H)-pyridazinone	28382-15-2	21.6	NE/NE
Inert Ingredients		78.4	NE/NE

## PHYSICAL AND CHEMICAL CHARACTERISTICS

**Appearance and Odor:** Pale, yellow liquid, slight odor.

**Boiling Point:** 217°F (103°C)

**Melting Point:** Not Applicable

**Vapor Pressure:** 8 mm Hg @ 20°C

**Vapor Density (Air=1):** Not Applicable

**% Volatility (V/V):** 71% @ 70°F

**Octanol/H<sub>2</sub>O Partition Coef.:** Not Determined

**pH:** 8.0

**Saturation in air (V/V):** Not Determined

**Specific Gravity (H<sub>2</sub>O=1):** 1.13

**Solubility in Water:** Completely soluble; insoluble in Xylenes

**Viscosity:** Not Determined

## FIRE AND EXPLOSION DATA

**Flash Point:** 212°F (100°C) TCC

**Flammable Limits in Air (V/V):** Not Determined

**Auto-Ignition Temperature:** 784°F (418.2°C) Fire Point

**Fire Extinguishing Media:** Water spray, dry chemical or foam

**Fire Control Tactics:** Protect against inhalation of combustion products. In confined areas use positive pressure and self contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Fire or excessive heat may release oxides of nitrogen.

## NFPA HAZARD RATING

**Health Hazard:** 1-Slightly Hazardous

**Fire Hazard:** 1-Slightly Combustible

**Reactivity:** 0-Stable

**Specific Hazard:** None

## REACTIVITY DATA

**Stability:** Stable at ambient temperature and pressures.

**Conditions to Avoid:** Excessive heat

**Incompatibility (Materials to Avoid):**

Strong acids may precipitate compound.

**Reactivity:** Non-reactive

**Hazardous Decomposition Products:**

Oxides of nitrogen under burning conditions.

**Hazardous Polymerization:** Will not occur.

## HEALTH HAZARD INFORMATION

**Threshold Limit Value:** Not Established

**Permissible Exposure Limit:** Not Established

**Warning Statements:** CAUTION Wear a long-sleeved shirt, long pants, and chemical resistant gloves at all times when mixing, loading, handling or applying this chemical. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Keep out of reach of children.

**Signs and Symptoms of Exposure:** Contact with eyes and skin can cause severe irritation.

**Medical Conditions Generally**

**Aggravated by Exposure:** Dermatitis

**Primary Route of Exposure:** Inhalation, skin absorption

**Acute Toxicity Data:**

**1. Oral Toxicity:**

LD<sub>50</sub> 14.15 g/kg

**2. Dermal Toxicity:**

LD<sub>50</sub>>8 g/kg

**3. Inhalation Toxicity:**

LC<sub>50</sub> >200 mg/l

**4. Eye Irritation:** Severe

**5. Skin Irritation/Sensitization:**

Moderate

**Chronic Toxicity Data:** The feeding to rats of 5% NA MH for two years did not produce significant adverse effects and no evidence of reproductive effects. The feeding to dogs of 2% NA MH for one year produced only mild, reversible health effects. A carcinogenicity bioassay of MH in mice was negative.

**Emergency and First Aid Procedures:**

**1. If swallowed:** Get medical attention.

**2. If inhaled:** Remove to fresh air. If breathing has stopped, artificial respiration should be started. Oxygen may be administered, if readily available. Seek medical attention if symptoms develop.

**3. If in Eyes:** Flush with water for 15 minutes, holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention if irritation persists.

**4. If on Skin:** Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, get medical attention.

**NOTE TO PHYSICIAN:** Treat symptomatically.

## SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** In the absence of adequate ventilation, use NIOSH-certified pesticide cartridge respirator.

**Eye Protection:** Chemical splash goggles or full face shield.

**Skin Protection:** Impervious gloves and protective clothing.

**Ventilation:** Provide ventilation to minimize vapor exposure.

**Other:** Avoid personal contact. Observe good personal hygiene. Impervious gloves, protective clothing and eye protection should be worn when handling. Launder clothing before reuse.

## SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

**Handling and 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. 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.

**Steps To Be Taken In Case Material Is Released Or Spilled.** Absorb on inert material. Shovel into secure containers for proper disposal. Use personal protective equipment. Reportable quantity-5000 lbs (Maleic Hydrazide)

**Waste Disposal Methods:** Dispose of in accordance with any applicable Local, State, or Federal regulation regarding pesticidal waste. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact you State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and Local authorities, by burning. If burned stay out of smoke.

## SHIPPING DATA (PACKAGE AND BULK)

**D.O.T. Proper Shipping Name:** Not Regulated

**D.O.T. Hazard Classification:**

**Primary:** Not Applicable

**Secondary:** Not Applicable

**D.O.T. Labels Required:** None

**D.O.T. Placards Required:** None

**Poison Constituent:** Not Applicable

**Hazardous Substance:** Maleic Hydrazide

**Reportable Quantity (RQ):**

**Product:** 2463 gallons

**Ingredient:** 5000 lbs.(Maleic Hydrazide)

**Bill of Landing Description:** Plant growth regulator, modifier, inhibitor, NOS (Maleic Hydrazide)

**Transportation Emergency #:**

CHEMTREC: (800)424-9300

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**ADDITIONAL REGULATORY INFORMATION**

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**Sara Title III Data:**

**Section 311 and 312 Hazard Categories:**

**Immediate Health Hazard:** Y

**Delayed Health Hazard:** N

**Fire Hazard:** N

**Reactive Hazard:** N

**Sudden Pressure Release Hazard** N

**Section 302:**

EHS: None; TPQ: 10,000 lbs.

**Section 313:** Contains no chemical subject to SARA 313.

**CERCLA Reportable Quantity:** 5000 lbs. (Maleic Hydrazide) Product: 2463 gallons

**National Response Center:**

(800)424-8802

**CHEMTREC:** (800)424-9300

The information and statements herein are believed to be reliable and are given in good faith but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

**MSDS NO.:** 10390

**DATE PREPARED:** 02/15/86

**DATE REVISED:** 3/7/03

**APPROVED:** *JMPearce*