

SAFETY DATA SHEET

CHEMICAL DISTRIBUTION SOLUTIONS

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: MALEIC ANHYDRIDE
Control Number: 00250
Product Description: Organic Compound

COMPANY IDENTIFICATION

Supplier: Chemical Distribution Solutions
1125 Oak St. Ste. 303
Conway, AR 72032

24 Hour Emergency Telephone: (800) 424-9300 CHEMTREC
General Information: (501) 978-1111

SECTION 2- HAZARDS IDENTIFICATION

GHS Classification:

[Health]

Acute toxicity, Oral Category 4
Skin corrosion Category 1B
Serious eye damage Category 1
Skin sensitization Category 1

[Environmental]

Acute aquatic toxicity Category 3

[Physical]

Respiratory sensitization Category 1

GHS Label elements, including precautionary statements

Pictograms



Signal Word: Danger

Hazard statement(s)

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H402 Harmful to aquatic life.

Precautionary statement(s)

P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285 In case of inadequate ventilation wear respiratory protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SAFETY DATA SHEET

SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Maleic Anhydride	108-31-6	100

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get immediate medical attention.

Skin Contact: Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get immediate medical attention.

SECTION 5 · FIRE FIGHTING MEASURES

Suitable Extinguishing media: Not considered a fire hazard. Use any means suitable for extinguishing surrounding fire.

Hazardous combustion products: Oxides of Carbon.

Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Unusual Fire and Explosion Hazards: Not considered an explosion or fire hazard.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 · STORAGE AND HANDLING

Handling: Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Ground all equipment containing material. Do not ingest. Do not breathe dust. Never add water to this product. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, acids, moisture.

Storage: Keep container dry. Keep in a cool place. Ground all equipment containing material. Corrosive materials should be stored in a separate safety storage cabinet or room.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

Exposure Limits: Maleic Anhydride 0.1 ppm ACGIH 0.25 ppm OSHA

Personal Protective Equipment (PPE):

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

Other Equipment: Eye wash station and shower in close proximity to use are advised.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: 218 °F

Autoignition Temperature: 890 °F

Boiling Point Range: 392 °F

Melting/Freezing Point: 126-129 °F

Vapor Pressure: 0.2 mmHg

Vapor Density (Air-1): 3.4

Appearance/ Odor: White solid with no odor

Flammability Limits: Lower: 1.4 Upper: 7.1

Specific Gravity: 1.48

Volatile %: nil

Evaporation Rate (Water=1): no available data

pH: 7

Solubility in Water: Soluble

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and temperature conditions.

Conditions to Avoid: Mixing with water. Will react with some metals forming flammable hydrogen gas.

Materials to Avoid: Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents, Alkali metals, Amines

Decomposition Products: When combusted, oxides of carbon.me

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Eyes: May cause severe irritation such as burns, and eye damage.

Skin: May cause severe skin irritation and reddening of the skin. Prolonged exposure may cause burns, blistering.

Ingestion: May cause irritation of the membranes of the mouth and throat, stomach pain, and possible ulceration.

Inhalation: May cause burns, cough, pulmonary edema, up to 48 hours after exposure. Avoid breathing dust.

Acute oral toxicity:

LD50 rat: 400 mg/kg

Acute inhalation toxicity:

LD50 rat: No available data

Acute dermal toxicity:

LD50 rabbit: 2,620 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 230 mg/l - 96 h

Bio-accumulative potential: Readily biodegradable.

Mobility: No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 - TRANSPORTATION**U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):**

Proper Shipping Name: Maleic anhydride

Hazard Class: 8

UN Number: 2215

Packaging Group: 3

SECTION 15 - REGULATORY INFORMATION**US FEDERAL REGULATIONS****Comprehensive Environmental Response and Liability Act (CERCLA)**

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 5000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard.

SARA Section 313 (40 CFR 372) Hazard Categories:

The following components are subject to reporting levels established by SARA Title III, Section 313:
Maleic Anhydride

Clean Water Act: This product contains Maleic Anhydride a chemical which is listed under the CWA.

Clean Air Act: None of the chemicals in this product are listed as Hazardous Substances under the CAA.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 - OTHER INFORMATION

MSDS Revision Date: January 2015

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 3

Flammability: 1

Reactivity: 1

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.