

CHLORENDIC ANHYDRIDE SELECT



Version 1, 06/01/2026

Chlorendic Anhydride is a solid, reactive flame retardant with an unusually stable chlorinated bicyclic structure. The SELECT grade offers improved color for applications where color is critical.

SPECIFICATIONS

Assay, % min	95
Chlorendic acid, % max	0.1
Color (polyester), Gardner, max	1
Hexachlorocyclopentadiene, % max	0.02
Maleic anhydride, % max	1

PHYSICAL and CHEMICAL PROPERTIES

Appearance	White crystalline solid
Chlorine, %	54.5
Free Volatiles, % max	1
Iron, ppm	1
Molecular weight (average)	371
Odor	Strong odor of aromatic hydrocarbons
Solution Color*, APHA, max	100

**Solution 90 grams in 51 ml of 1:1 Methanol:Acetone
Shelf Life – 3 years from manufacture*

SAFE HANDLING PROCEDURES

Personal Protective Equipment - All personnel involved in the manufacture, transfer, loading and unloading of Chlorendic Anhydride are required to wear specific protective clothing and safety equipment. Standard gear consists of hard hat, goggles, gloves, safety shoes/boots, and long sleeve coveralls. In areas where the dry product can produce a dusty environment, a full-face piece cartridge respirator is required. When dusty atmosphere exceeds 1 mg/m³ a full-face piece air supplied respirator is recommended. It is recommended that the employees remove all safety gear and shower at the end of the workday.

Chlorendic Anhydride reacts with water and/or sunlight to form Chlorendic Acid. The National Toxicology Program (NTP) has concluded that Chlorendic acid showed clear evidence of carcinogenicity (cancer) in animals. The International Agency for Research on Cancer (IARC) has given Chlorendic Acid an overall evaluation of 2B (possibly carcinogenic).

Chlorendic Anhydride may be harmful if swallowed, irritating to eyes, skin and respiratory tract and may cause allergic skin reaction. No exposure limits have been set for Chlorendic Anhydride.

First-Aid Procedures

Eyes	Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin	Immediately wash with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Destroy contaminated shoes.
Ingestion	Get medical attention. Induce vomiting as directed by medical personnel. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
Inhalation	Remove to under fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. GET MEDICAL ATTENTION.

IN ALL CASES OF EMERGENCY, CONTACT A PHYSICIAN

CHLORENDIC ANHYDRIDE STORAGE

While Chlorendic Anhydride is not flammable, the occluded solvent trapped within the crystal may ignite. Protect against static buildup and/or use in an inert atmosphere.

Chlorendic Anhydride degrades to Chlorendic Acid in the presence of water and/or sunlight. Store in cool, ventilated area away from sources of ignition. Keep away from direct sunlight or strong incandescent light. Keep drums and bags closed to prevent the absorption of water.

Recommended material of construction for equipment that contacts Chlorendic Anhydride is 316 stainless steel.

CHLORENDIC CONTAINERS - UNLOADING

Falling product can generate a static charge. Protect against the hazards associated with potential static discharge by using an inert atmosphere.

250 lb drums Remove seal and wire-tie on drum rim. Pull locking lever down and pull handle out to release ring. Remove ring and lid from the drum. The Chlorendic Anhydride is sealed in an inner bag. Remove the wire tie to open the bag. Scoop or shovel product out of the drum. If entire contents are not to be used from the drum, reseal the inner bag tightly and replace top on drum to prevent the absorption of water.

500kg and 2000lb Bags Support bag with the lifting straps. Pull inner liner through top nozzle and attach to secure structure to minimize the likelihood of the inner liner slipping out of the outer bag with the product. Untie the string on the bottom of the bag and pull the bottom nozzle out. With the nozzle properly positioned, untie second string to release product.

25kg Bags The 25kg bag is simply a Kraft style bag with an inner liner. Tear or cut a hole in the outer bag an inner liner, and pour out product.

REGULATORY INFORMATION

<i>Europe</i>	
EINECS Status	Listed: 1,4,5,6,7,7-Hexachloro-8,9,10-trinorborn-5-ene-2,3-dicarboxylic anhydride EC # 204-077-3 REACH registration No.: 01-2119911956-30-0000
<i>Americas</i>	
TSCA Inventory	Listed: 4,7-Methaneisobenzofuran-1,3-dione,4,5,6,7,8,8-h exchloro-3a,4,7,7-a-tetrahydro CAS# 115-27-5
Canadian DSL	Listed: 4,7-Methaneisobenzofuran-1,3-dione,4,5,6,7,8,8-h exchloro-3a,4,7,7-a-tetrahydro
<i>Pacific Rim</i>	
Australian Inventory (AICS)	Listed: 4,7-Methaneisobenzofuran-1,3-dione,4,5,6,7,8,8-h exchloro-3a,4,7,7-a-tetrahydro
Chinese Inventory of Existing Chemical Substances (IECSC)	Listed: 4,7-Methaneisobenzofuran-1,3-dione,4,5,6,7,8,8-h exchloro-3a,4,7,7-a-tetrahydro Chinese Section # III
Japan MITI/MHW Chemical Substances Control Inventory for Existing and New Chemical Substances	Listed, Chlorendic anhydride ENCS # (4)-621
Korean Existing Chemicals Inventory (KECI)	Listed: 4,5,6,7,8,8-hexchloro-3a,4,7,7-a-tetrahydro-4,4-me thanoisobenzofuran-1,3-dione Korean Gazette # MOL92-14, KE-18418
Philippines Inventory (PICCS)	Listed: Chlorendic anhydride

The information in this data sheet is, to the best of our knowledge, true and accurate. The representations about the product are based upon test results achieved under laboratory practices supervised and controlled by Velsicol Chemical LLS. Since formulations, preparation or conditions of use may vary, Velsicol is unable to guarantee the same performance as indicated.

Nothing contained herein shall constitute a guarantee or warranty with respect to the product or its uses, nor does Velsicol assume any liability therefore. The user is responsible for determination of suitability of any material or practice for a specific purpose and for adoption of such safety precautions as may be necessary. A Safety Data Sheet (SDS) is available for this product. Users of this product are urged to study and use the information in the Safety Data Sheet. Velsicol does not warrant against infringement of any patent which might arise by the use of Velsicol's product in any combination with other products or arising in the operation of any process.

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