

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

**PRODUCT NAME:** Succinimide  
**SYNONYMS** Succinic Acid Imide, 2,5-Pyrrolidinedione  
**DISTRIBUTOR:** Charkit Chemical Company, LLC.  
**ADDRESS:** 32 Haviland Street, Unit 1  
Norwalk, CT 06854  
**EMERGENCY PHONE:** CHEMTREC (800) 424-9300.  
Intl: 1-703-527-3887

**CHEMICAL NAME:** 2,5-Pyrrolidinedione  
**CHEMICAL FAMILY:** Imides  
**CHEMICAL FORMULA:** C<sub>4</sub>H<sub>5</sub>NO<sub>2</sub>  
**IDENTIFIED USES:** Industrial intermediate.  
**UNADVISED USES:** For industrial use only.

**REVISION DATE:** 7/18/14

**SECTION 1 NOTES:**

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

**GHS CLASSIFICATION:** Not classified as hazardous.  
**HAZARD SYMBOL:** None required.  
**HAZARD STATEMENTS:** Not applicable.  
**SPECIAL HAZARD:** Not applicable.

**LABEL ELEMENTS:**  
**HAZARD PICTOGRAM:** None  
**HAZARD STATEMENTS:** H303: May be harmful if swallowed.  
**PRECAUTIONARY STATEMENTS:** None

**SECTION 2 NOTES:**

---

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

---

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>EC NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Succinimide	123-56-8	204-636-6	>99	N/A

**SECTION 3 NOTES:**

---

**SECTION 4: FIRST AID MEASURES**

---

**EYES:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get immediate medical attention.  
**SKIN:** Immediately wipe away material with a dry cloth and remove contaminated clothing and shoes. Flush skin with plenty of soap and water for at least 15 minutes. Get immediate medical attention.  
**INGESTION:** If victim is conscious and alert, give 2-4 cupfuls of water (16 oz). Do not induce vomiting. If vomiting occurs, give fluids again. Never give anything to an unconscious person. Get immediate medical attention.  
**INHALATION:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** In cases of irritation to the lungs, initial treatment with cortisone metered aerosol. Treat symptomatically and supportively.

**SECTION 4 NOTES:**

---

**SECTION 5: FIRE-FIGHTING MEASURES**

---

**HMIS HAZARD CLASSIFICATION**

HEALTH: 1      FLAMMABILITY: 1      REACTIVITY: 1      PROTECTION: E

**NFPA HAZARD CLASSIFICATION**

HEALTH: 1      FLAMMABILITY: 1      REACTIVITY: 1

**EXTINGUISHING MEDIA:** Water spray, extinguishing powder or carbon dioxide. Fight larger fires with water spray or alcohol resistant foam.**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and special chemical protective clothing. Remain upwind of fire to avoid hazardous vapors and toxic decomposition products.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Vapors from melted material can be ignited.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide, carbon monoxide, NOx, acrid and irritating fumes.**SECTION 5 NOTES**

---

**SECTION : ACCIDENTAL RELEASE MEASURES**

---

Evacuate all unnecessary personnel. Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Pressure demand air supplied respirators should be worn. Wear gloves, goggles and protective clothing to avoid contact with eyes, skin or clothing. Prevent entry into sewers and waterways.

**SECTION 6 NOTES:**

---

**SECTION 7: HANDLING AND STORAGE**

---

**HANDLING AND STORAGE:** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Avoid dust formation and control ignition sources. Employ grounding, venting, and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere where flammable vapors, if present, could cause a flash fire or explosion due to electrostatic discharge.

**SECTION 7 NOTES:**

---

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

	ppm	mg/m <sup>3</sup>
OSHA PEL-TWA:	NE	
ACGIH TLV-TWA:	NE	
TEEL	NE	

**US ACGIH GENERAL TWA ON DUST:** 10MG/M<sup>3</sup> (INHALABLE FRACTION); 3MG/M<sup>3</sup> (RESPIRABLE FRACTION)**US OSHA Z-1 PEL ON DUST:** 15MG/M<sup>3</sup> (INHALABLE FRACTION); 5MG/M<sup>3</sup> (RESPIRABLE FRACTION)**ENGINEERING CONTROLS:** Maintain a well-ventilated area to control dust levels. Dust tight conveying and handling equipment is recommended to minimize airborne dust levels.**VENTILATION:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion if it into the general work area.**RESPIRATORY PROTECTION:** If the exposure limit is exceeded, a full face piece with dust/mist filter may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure limits are not known, use a full-face piece positive-pressure, air-supplied respirator.**WARNING:** Air purifying respirators do not protect workers in oxygen deficient atmospheres.**EYE PROTECTION:** Use chemical safety goggles and/ full-face shield. Contact lenses should not be worn. Maintain eye wash fountain and quick drench facilities in work.**SKIN PROTECTION:** Rubber gloves and lab coat, apron or coveralls.**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling. Remove contaminates shoes and clothing. Do not take internally. Eyewash and safety equipment should be readily available. Keep away from foodstuffs, beverages and feed.**SECTION 8 NOTES:**

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

**APPEARANCE:** White flakes  
**ODOR:** Characteristic  
**PHYSICAL STATE:** Solid  
**pH AS SUPPLIED:** 4.5 (50g/L in water @ 20°C)  
**FLAMMABLE LIMITS IN AIR, (% BY VOLUME):** LOWER: N/E; UPPER: N/E  
**FLASH POINT:** 394° F (201° C)  
**AUTOIGNITION TEMPERATURE:** N/E  
**MINIMUM IGNITION TEMPERATURE:** 535°C  
**MINIMUM IGNITION ENERGY:** 10-30 mJ. Higher temperatures lower the ignition energy and increase the risk of explosion.  
**BOILING POINT:** 549°F (287°C) Decomposes  
**MELTING POINT:** 253-257°F (123-125° C)  
**VAPOR DENSITY (AIR = 1):** 3.3  
**SPECIFIC GRAVITY (H2O = 1):** 1.412 (solid)  
**EVAPORATION RATE:** N/A  
**SOLUBILITY IN WATER:** 330 g/L @ 20°C  
**LOG POW:** -0.9  
**MOLECULAR WEIGHT:** 99.09

**SECTION 9 NOTES:**

---

**SECTION 10: STABILITY AND REACTIVITY**

---

STABLE      UNSTABLE  
X

**STABILITY:** Stable under normal temperatures and pressure.  
**CONDITIONS TO AVOID (STABILITY):** Incompatible materials, dust generation, heating to decomposition.  
**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon dioxide and carbon monoxide; NO<sub>x</sub> acrid fumes.  
**HAZARDOUS POLYMERIZATION:** Will not polymerize.  
**CONDITIONS TO AVOID (POLYMERIZATION):** Will not polymerize.

**SECTION 10 NOTES:**

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

---

**TOXICOLOGICAL INFORMATION:** Oral rat LD50: 14 g/kg.  
Non-irritating to skin and eyes. No sensitizing or mutagenic effect known.

**SECTION 11 NOTES:**

---

**SECTION 12: ECOLOGICAL INFORMATION**

---

Water hazard class 1 (self-assessment); slightly hazardous to water per classification according to Annex 3 VwVwS. Readily biodegradable with 98% elimination.

**SECTION 12 NOTES:**  
Do not allow to enter drains or sewers. Do not allow to drain into surface waters.

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

---

**WASTE DISPOSAL METHOD:** Dispose of container and unused contents in accordance with federal, state, and local requirements.

**RCRA HAZARD CLASS:** None

**SECTION 13 NOTES:**

---

**SECTION 14: TRANSPORT INFORMATION**

---

**U.S. DEPARTMENT OF TRANSPORTATION**  
Not regulated by DOT

**SECTION 14 NOTES:**

---

**SECTION 15: REGULATORY INFORMATION**

---

**U.S. FEDERAL REGULATIONS**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** This material is listed in the TSCA inventory.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** This material is listed in the CERCLA inventory.

Release of more than 5,000 lbs. of this product to the environment requires notification to the National Response Center (800-424-8802).

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** RQ=0 TPQ=0

**SECTION 302:** RQ= No TPQ=No

**SECTION 311/312 HAZARD CATEGORIES:** Not listed

**SECTION 313 REPORTABLE INGREDIENTS:** Not listed

**STATE REGULATIONS:**

Proposition 65: Not listed as causing cancer, reproductive or developmental toxicity.

**INTERNATIONAL REGULATIONS:****EUROPEAN COMMUNITIES**

**EINECS:** EINECS# 204-635-6

This product is REACH compliant.

**CANADA: DSL:** Listed.

**ENCS:** Listed 5-120

**ECL:** KE-29976

**CHINA:** Listed.

**NEW ZEALAND:** Listed.

**PICCS:** Listed.

**AICS:** Listed.

**SWITZERLAND:** Klasse 3

**SECTION 15 NOTES:**

---

**SECTION 16: OTHER INFORMATION**

---

**DISCLAIMER:** This SDS was obtained from reliable sources. However, it is provided without representation or warranty expressed or implied regarding accuracy or correctness. Conditions, methods of handling, storage, use and disposal of the product are beyond our knowledge. For this and other reasons, we assume no responsibility and expressly disclaim liability for injury, loss damage or expenses arising from use of this product

This information is believed to be accurate and is intended for general guidance. It should not be construed as a guarantee of its suitability for a particular application. Charkit Chemical Company, LLC. offers no warranties either expressed or implied, nor is freedom from any patent owned by Charkit Chemical Company, LLC. or others implied; neither is liability accepted for errors or omissions in the information. Typical properties of products are given for guidance only and do not necessarily represent manufacturing specifications.