Material Safety Data Sheet
Glutaric acid

Section 1 - Chemical Product and Company Identification
MSDS Name: Glutaric acid
Catalog Numbers: 11996-0000, 11996-0250, 11996-1000, 11996-5000, 34592-0000, 34643-0000, 34643-0250, 34643-1000, 34643-5000
Synonyms: 1,5-Pentanediioic acid

Company Identification:
Acros Organics BVBA
Janssen Pharmaceuticaalaaan 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients
CAS# Chemical Name: EINECS#
110-94-1 Glutaric acid 99% 203-817-2

Hazard Symbols: XI

Risk Phrases: 36/37/38

Section 3 - Hazards Identification
EMERGENCY OVERVIEW
Irritating to eyes, respiratory system and skin.

Potential Health Effects
Eye: Causes eye irritation.
Skin: Causes skin irritation. Low hazard for usual industrial handling.
Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling.

Inhalation: Causes respiratory tract irritation. Low hazard for usual industrial handling.

Chronic:

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Contaminated skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Avoid mechanical shock and friction.
Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 110-94-1:
Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder
   Color: white
   Odor: Not available
   pH: Not available
   Vapor Pressure: 0.022hPa @18.5 deg C
   Viscosity: Not available
   Boiling Point: 302 deg C @760mmHg (575.60°F)
   Freezing/Melting Point: 92 - 99 deg C
   Autoignition Temperature: Not available
   Flash Point: Not available
   Explosion Limits: Lower: Not available
   Explosion Limits: Upper: Not available
   Decomposition Temperature: Not available
   Solubility in water: 430 g/l (20°C)
   Specific Gravity/Density:
      Molecular Formula: C5H8O4
      Molecular Weight: 132.12
Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, heating to decomposition.

Incompatibilities with Other Materials: Strong oxidizing agents, reducing agents, bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 110-94-1: MA3740000

RTECS: CAS# 110-94-1: Oral, mouse: LD50 = 6 gm/kg;

LD50/LC50: Glutaric acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA

Carcinogenicity: Prop 65.

Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

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Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols: XI
Risk Phrases:
   R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrases:
   S 26 In case of contact with eyes, rinse immediately with plenty of water and
      seek medical advice.
   S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)
   CAS# 110-94-1: 1

Canada
   CAS# 110-94-1 is listed on Canada's DSL List

US Federal
TSCA
   CAS# 110-94-1 is listed on the TSCA Inventory.

Section 16 - Other Information
   MSDS Creation Date: 9/03/1996
   Revision #1 Date 5/10/2005
   Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best
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howsoever arising, even if the company has been advised of the possibility of
such damages.

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