Section 1 - General Information
Chemical Name:
2-Hydroxyglutaric Acid
CAS Reg. Number:
2889-31-8
Preparation Date/Revision Date:
1/13/2009
Manufacturer's Name:
Toronto Research Chemicals Inc.,
2 Brisbane Rd., North York, ON
Canada, M3J 2J8
Telephone Number:
416-665-9696  Fax Number:
416-665-4439

Section 2 - Hazardous Ingredients/Identity Information
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Exercise due care.

Section 3 - Physical/Chemical Characteristics
Boiling Point:
N/A
Appearance and Odor:
N/A
Vapor Pressure:
N/A
Specific Gravity(H2O=1):
N/A
Solubility in Water:
N/A
Melting Point:
N/A
Evaporation Rate (ButylAcetate=1):
N/A
Vapor Density:
N/A

Section 4 - Reactive Data
Stability:
Good
Incompatibility (Materials to Avoid):
Strong oxidizing agents
Conditions to Avoid:
Strong oxidizers and moisture
Hazardous Decomposition or Byproducts:
Toxic fumes of carbon monoxide and carbon dioxide
Hazardous Polymerization:
will not occur

Section 5 - Control Measures
Respiratory Protection:
Niosh/Msha approved respirator
Ventilation:
HOOD
Protective Gloves:
chemical resistant gloves
Eye Protection:
SAFETY GOGGLES
Other Protective Clothing:
LAB COAT/APRON
Other Protection:
safety shower, eye wash

Section 6 - First Aid Measures
Inhalation:
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.

Skin:
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES.

Ingestion:
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

Eyes:
IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MIN. ASSURE ADEQUATE FLUSHING BY SEPARATING EYELIDS.

Section 7 - Health Hazard Data
Health Hazards (Acute and Chronic):
ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: Harmful if swallowed. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Exercise due care.

Medical Conditions Generally Aggravated by Exposure:
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 8 - Precautions for Safe Handling and Use
Steps to be Taken in Case Material is Released or Spilled:
WEAR PROTECTIVE EQUIPMENT. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Waste Disposal Method:
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

Precautions to Be Taken in Handling and Storage:
MECHANICAL EXHAUST REQUIRED. DO NOT BREATH DUST. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

Section 9 - Fire and Explosion Hazard Data
Extinguishing Media:
WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

Special Fire Fighting Procedures:
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

Unusual Fire and Explosion Hazards:
Emits toxic fumes in fire conditions

Section 10 - Transportation Information and regulatory information
DOT