

Material Safety Data Sheet

Revision: 08/03/2005



Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS)

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME:
Pelargonic Acid

PRODUCT CODE:
19970

EEC NUMBER:
203-931-2

SUPPLIER:

USB Corporation, 26111 Miles Road, Cleveland, Ohio 44128 Phone: (216) 765-5000
Please visit our website at www.usbweb.com for contact information on USB product distributors within your area.

Emergency Contact:

Chemtrec (800) 424-9300
Outside USA & Canada 703 527 3887

COMPOSITION/HAZARDOUS COMPONENTS

HAZARD

CAS NO.

%WT

TLV

CHIP R & S Phrases

Pelargonic Acid

112-05-0

~99%

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R:34 Causes burns.
S:26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S:28 After contact with skin, wash immediately with plenty of water.
S:36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S:45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HAZARDS IDENTIFICATION

CHIP

Corrosive

HCS

Corrosive

FIRST-AID MEASURES

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

FIRE-FIGHTING INFORMATION

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. Emits toxic fumes under fire conditions. Autoignition Temperature = 405°C. Explosion Limits: Lower = 0.8% Upper = 9%. Flash Point = 100°C (Closed cup).

ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Remove all sources of ignition. Cover with dry lime or soda ash. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

HANDLING AND STORAGE

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Use adequate ventilation. Avoid heat, sparks and open flame. Store ambient away from incompatible materials.

PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid
Vapor Pressure (mm Hg): <0.1 mmHg @ 20°C
Solubility (Water): Insoluble
Percent Volatile: 100%
Chemical formula: C9-H18-O2

Boiling Point: 254°C @ 760 mmHg
Vapor Density: 5.5 g/l
Specific Gravity: 0.905 g/cm3
Evaporation Rate: No data available
Melting Point: 12-13°C

STABILITY AND REACTIVITY

Product is stable. Avoid high temperatures, flames and sparks. Hazardous decomposition products include oxides of carbon. Incompatible with reactive metals, bases, reducing agents and oxidizing agents. Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:
EYES: Causes burns which may result in permanent tissue and corneal damage.
SKIN: Contact causes burns and severe irritation.
INHALATION: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
INGESTION: Causes gastrointestinal tract burns.
TARGET ORGAN(S): Eyes, Skin, Respiratory System and G.I. Tract.
ADDITIONAL INFORMATION:
May be harmful by inhalation, ingestion and skin absorption.
Irritation and toxicity data listed in RTECS under RA6650000.
Only select RTECS information is provided here. Please see actual RTECS entry for complete information.
Irritation data: Skin Rabbit 500 mg/24H = Moderate (1978). Eye Rabbit 91 mg = Severe (1964).
Oral Rat LD50 = > 5 gm/kg (1999). Details of toxic effects not reported other than lethal dose value.
Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

ECOLOGICAL INFORMATION

Expected to significantly bioaccumulate and/or bioconcentrate in aquatic organisms. Estimated BCF: 230 (HSDB). Observed to be completely biodegraded in soil and water within 5 days. Vapors are readily photodegradable in the atmosphere, estimated half-life of 38 hours (HSDB). Not expected to cause long term effects in the environment.
Test Type: EC50 Daphnia; Species: *Daphnia magna*; Time: 45 h; Value: 64-119 mg/l.
Test Type: LC50 Fish; Species: *Lepomis macrochirus* (Bluegill); Time: 96 h; Value: > 105 mg/l.
Test Type: LC50 Fish; Species: *Onchorhynchus mykiss* (Rainbow trout); Time: 96 h; Value: 68-121 mg/l.

DISPOSAL CONSIDERATIONS

Dispose of material in accordance with applicable local, state, and federal regulations.

TRANSPORTATION INFORMATION

US DOT / IATA: Corrosive liquid, acidic, organic, n.o.s. (Pelargonic acid), Class 8, UN3265, PGIII. Label: Corrosive.

REGULATORY INFORMATION

RCRA - No applicable information.
SARA 302 - This material does not have an RQ or TPQ.
SARA 313 - This material is not reportable under 313.
SARA 311/312 - acute.
EPA TSCA Section 8(b) - Chemical Inventory.
8(d) - unpublished health/safety studies.
Exposure Limits - Not established.
California Proposition 65 - No applicable information.

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.