PROPIONIC ACID

SECTION 1: PRODUCT IDENTIFICATION

Product Name: PROPIONIC ACID
Product Code: 4143
CAS#: 79-09-4
CI#: Not available
Synonym: Not available
Chemical Name: Not available
Chemical Formula: $C_3H_6O_2$
Formula Weight: 74.08

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
PROPIONIC ACID
Toxicological Data on Ingredients:
Flam Liq. 3; Skin Corr.1B;
Eye Dam. 1 STOT SE3
H226, H314, H318, H335

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008
Flammable liquids (Category 3), H226
Skin corrosion (Sub-category 1B), H314
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Other hazards: This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher

SECTION 4: FIRST AID MEASURES

Description of first aid measures:
If inhaled If breathed in: If breathed in, move person into fresh air. If not breathing, call in physician
In case of skin contact: Wash off with plenty of water
In case of eye contact: After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
If swallowed: After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize
Most important symptoms and effects, both acute and delay: No data available
Indication of any immediate medical attention and special treatment needed: Not available

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media: Water Foam Carbon dioxide (CO2) Dry powder
Special hazards arising from the substance or mixture:
Nature of decomposition products not known

Combustible.
Vapors are heavier than air and may spread along floors
Forms explosive mixtures with air at elevated temperatures
Development of hazardous combustion gases or vapours possible in the event of fire
Advice for firefighters: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing
Further information
Remove container from danger zone and cool with water. Prevent fire-extinguishing waterfrom contaminating surface water or the ground water system

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert
Environmental precautions: Do not let product enter drains.
Methods and materials for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions take up with liquid-absorbent and neutralising material

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Not available
Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Conditions for safe storage, including any incompatibilities:
Storage conditions: Keep container tightly closed in a dry and well-ventilated
Storage class: Storage class (TRGS 510): 3: Flammable liquids
Specific end use(s) apart from the uses: No other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls.
Personal protective equipment
Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection Flame retardant antistatic protective clothing
Respiratory protection: Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
Control of environmental exposure: Do not let product enter drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	**:** liquid
Odour	**:** colorless
Taste	**:** Not available
Molecular Weight	**:** Not available
Colour	**:** White
pH	: Not available
Boiling Point	**:** 141 - 142 °C

Melting Point	: -24 - -23 °C
Critical Temperature	: Not available
Density	: Not available
Relative Density	: Not available
Vapor Pressure	: Not available
Vapor Density	: Not available
Volatility	: Not Available
Odor Threshold	: Not Available
Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Water Solubility	: Not available
Partition coefficient	: Not Available
Auto-ignition temperature	: Not Available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity: Vapor/air-mixtures are explosive at intense warming
Chemical stability: The product is stable under recommended storage conditions
Possibility of hazardous reactions: Not available
Conditions to avoid: Heating
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products Other decomposition products: Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects:
Acute toxicity
LD50 Oral - Rat - male and female - 3.455,1 mg/kg
(OECD Test Guideline 401)
LC50 Inhalation - Rat - male and female - 4 h - > 20 mg/l - vapor
(OECD Test Guideline 403)
LD50 Dermal - Rat - female - 3.235 mg/kg
(OECD Test Guideline 402)
LD50 Parenteral - Rat - 3.500 mg/kg
Skin corrosion/irritation:
Skin - Rabbit
Result: Causes burns
Serious eye damage/eye irritation:
Eyes - Rabbit
Result: Risk of serious damage to eyes
Respiratory or skin sensitization: Not available
Carcinogenicity: Not available
Reproductive toxicity: Not available
Specific target organ toxicity: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:
Mixture: Not available
Persistence and degradability:
Biodegradability aerobic - Exposure time 20 d
Result: 93 % - Readily biodegradable

Bio accumulative potential: Not available
Mobility in soil: Not available
Results of PBT and vPvB assessment PBT/vPvB assessment: This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions

SECTION 14: TRANSPORT INFORMATION

UN number
ADR/RID: 3463 IMDG: 3463 IATA: 3463
UN proper shipping name
ADR/RID: PROPIONIC ACID IMDG: PROPIONIC ACID IATA: PROPIONIC ACID
Transport hazard class(es)
ADR/RID: 8 (3) IMDG: 8 (3) IATA: 8 (3)
Packaging group
ADR/RID: II IMDG: II IATA: II
Environmental hazards
ADR/RID: No IMDG Marine pollutant: No IATA: No
Special precautions for user
No data available

SECTION 15: OTHER REGULATORY INFORMATION

Regulatory information This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006
Chemical Safety Assessment: A Chemical Safety Assessment has been carried out for this substance

SECTION 16: OTHER INFORMATION

References:
Full text of H-Statements referred to under sections 2 and 3.
H226 Flammable liquid and vapor
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Other Special Considerations: Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.