

## 5-AMINOLEVULINIC ACID

### SECTION 1: PRODUCT IDENTIFICATION

Product Name: 5-Aminolevulinic acid  
Product Code: CM 23022  
CAS#: 451-09-2  
Chemical Formula:  $C_5H_9NO_3 \cdot HCl$   
Molecular Formula: 167.59  
Synonyms : 5-Aminolaevulinic acidhydrochloride  
Chemical Formula: KCl

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:  
Name: 5-Aminolevulinic acid  
Toxicological Data on Ingredients: Not applicable.

### SECTION 3: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008  
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### SECTION 4: FIRSTAID MEASURES

Description of first aid measures  
General advice Consult a physician. Show this safety data sheet to the doctor in attendance.  
If inhaled If breathed in: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
In case of skin contact: Wash off with soap and plenty of water. Consult a physician.  
In case of eye contact: Flush eyes with water as a precaution.  
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  
Most important symptoms and effects, both acute and delay: No data available  
Indication of any immediate medical attention and special treatment needed: No data available

### SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media  
Suitable extinguishing media:  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Special hazards arising from the substance or mixture:  
Carbon oxides  
Nitrogen oxides (NOx)  
Hydrogen chloride gas  
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.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.



Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.  
 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers

## SECTION 7: HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities  
 Storage conditions  
 Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
 Storage stability  
 Recommended storage temperature  
 -20 °C  
 Storage class  
 Storage class (TRGS 510): 13: Non Combustible Solids

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls  
 Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.  
 Personal protective equipment  
 Eye/face protection Safety glasses with side-shields conforming to EN166 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 Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace  
 Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).  
 Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	:Crystalline
Odour	:Not available
Taste	:Not available
Molecular Weight	:Not available
Colour	:White
pH	:Not available
Boiling Point	:Not available
Melting Point	:150°C Decomposes on heating.
Critical Temperature	:Not available
Specific 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  
Solubility : Not available

#### SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions.  
Instability Temperature: Not available  
Conditions of Instability: Not available  
Incompatibility with various substances: Strong oxidizing agents  
Special Remarks on Reactivity: Not available  
Hazardous decomposition products Other decomposition products: Not available.

#### SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity  
Oral: No data available  
Inhalation: No data available  
Dermal: No data available  
Skin corrosion/irritation  
No data available  
Serious eye damage/eye irritation  
No data available  
Respiratory or skin sensitization  
No data available  
Germ cell mutagenicity  
No data available  
Carcinogenicity  
No data available  
Reproductive toxicity  
No data available  
Specific target organ toxicity - single exposure  
No data available  
Specific target organ toxicity - repeated exposure  
No data available  
Aspiration hazard  
No data available

#### SECTION 12: ECOLOGICAL INFORMATION

Toxicity  
No data available  
Persistence and degradability  
No data available  
Bioaccumulative potential  
No data available  
Mobility in soil  
No data available  
Results of PBT and vPvB assessment  
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



### SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

### SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID:

IMDG:

IATA:

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class (es):

ADR/RID:

IMDG:

IATA:

Packaging group:

ADR/RID:

IMDG:

IATA:

Environmental hazards:

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

### SECTION 15: OTHER REGULATORY INFORMATION

Regulatory information: This safety datasheet complies with the requirements of Regulation (EC) No.1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture no data available  
Chemical Safety Assessment For this product a chemical safety assessment was not carried out

### SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Not available.

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.

