

## 1 - Product and Company Information

ProductName ACRYLONITRILE-2-D, 98 ATOM % D

## 2 - Hazards Identification

### SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

May cause cancer. May cause heritable genetic damage. Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and respiratory system.

## 3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
ACRYLONITRILE-2-D, 98 ATOM % D	4635-82-9	None	None

Formula C3H2DN  
Molecular Weight 54.07 AMU

## 4 - First Aid Measures

### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### AFTER EYE CONTACT

Assure adequate flushing of the eyes by separating the eyelids with fingers.

### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

## 5 - Fire Fighting Measures

### EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

### SPECIAL RISKS

Specific Hazard(s): Vapor may travel considerable distance to source of ignition and flash back. Flammable liquid.

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6 - Accidental Release Measures

### PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Shut off all sources of ignition. Evacuate area.

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Cover with an activated carbon adsorbent, take up and place in closed containers. Transport outdoors. Ventilate area and wash spill site after material pickup is complete.

## 7 - Handling and Storage

### HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

### STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

## 8 - Exposure Controls / Personal Protection

### ENGINEERING CONTROLS

Use only in a chemical fume hood.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Discard contaminated clothing and shoes.

### PERSONAL PROTECTIVE EQUIPMENT

Hand Protection: Compatible chemical-resistant gloves.  
Eye Protection: Chemical safety goggles.

## 9 - Physical and Chemical Properties

pH N/A

BP/BP Range N/A

MP/MP Range N/A

Flash Point N/A

Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A

Partition Coefficient N/A

Viscosity N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

Evaporation Rate N/A

Bulk Density N/A

Decomposition Temp. N/A

Solvent Content N/A

Water Content N/A

Surface Tension N/A

Conductivity N/A

Miscellaneous Data N/A

Solubility N/A

## 10 - Stability and Reactivity

### STABILITY

Stable: Stable.

Conditions to Avoid: Heat. May polymerize on exposure to light.

Materials to Avoid: Oxidizing agents, Acids, Bases Copper, Copper alloys.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen cyanide, Nitrogen oxides.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: May occur

## 11 - Toxicological Information

### SIGNS AND SYMPTOMS OF EXPOSURE

Cyanosis. Dizziness. Symptoms may be delayed. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. May be partially metabolized to cyanide in the body. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. CNS depression. Ataxia.

### ROUTE OF EXPOSURE

Skin Contact: Causes severe skin irritation.

Multiple Routes: Vapor or mist is irritating to the eyes, mucous membranes, and upper respiratory tract.

### TARGET ORGAN INFORMATION

Liver. Central nervous system. Cardiovascular system. Kidneys.

### CHRONIC EXPOSURE - CARCINOGEN

Result: This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

## 12 - Ecological Information

No data available.

## 13 - Disposal Considerations

### SUBSTANCE DISPOSAL

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

## 14 - Transport Information

### RID/ADR

UN#: 1093

Class: 3

PG: I

Subrisk: 6.1

Proper Shipping Name: Acrylonitrile, inhibited

### IMDG

UN#: 1093

Class: 3

PG: I

Subrisk: 6.1

Proper Shipping Name: Acrylonitrile, inhibited

Marine Pollutant: No

Severe Marine Pollutant: No

### IATA

UN#: 1093

Class: 3

PG: I

Subrisk: 6.1

Proper Shipping Name: Acrylonitrile, stabilized

Inhalation Packing Group I: No

## 15 - Regulatory Information

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

#### INDICATION OF DANGER: F-T

Highly Flammable. Toxic.

R-PHRASES: 45-46-11-23/24/25-36/37

May cause cancer. May cause heritable genetic damage. Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and respiratory system.

S-PHRASES: 53-16-23-36/37/39-45

Avoid exposure - obtain safety instructions before use. Keep away from sources of ignition - no smoking. Do not breathe vapor. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Caution: Substance not yet fully tested (EU).

### COUNTRY SPECIFIC INFORMATION

#### Germany

WGK: 3

Self-Classification

## 16 - Other Information



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For R&D use only. Not for drug, household or other uses.

### WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.