According to Regulation (EC) No. 1272/2008 Language: English

Safety Data Sheet

Revision: 3.00 Modified: 2015-07-29

1: Identification of substance / mixture

1. Product Identifier Substance

Product Name 1-Pyrrolidineacetonitrile

Product Code 853

CAS Number 29134-29-0

Other Names

IUPAC

MFCD Number MFCD00014098 EC/EINECS 249-463-2

REACH Number

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

Company : Aaron Chemistry GmbH

: Am Fischweiher 41-43 : D-82481 Mittenwald

: Germany

 Telephone:
 : +49-8823-917521

 Fax:
 : +49-8823-917523

 email:
 : info@aaron-chemistry.de



4. Emergency telephone number

++49-8823-917521

2. Hazards Identification

1. Classification of the substance or mixture

H301	Acute Tox. 3	R25, R23/25, R23/24/25, R24/25
H302	Acute Tox. 4	R22, R20/22, R20/21/22, R21/22, R68/20/22, R68/21/22, R68/20/21/22
H315	Skin Irrit. 2	R38, R36/38, R36/37/38, R37/38
H319	Eye Irrit. 2	R36, R36/37, R36/38, R36/37/38
H332	Acute Tox. 4	R20, R20/21, R20/22, R20/21/22, R68/20/21, R68/20/22, R68/20/21/22
H335	STOT SE 3a	R37, R36/37, R36/37/38, R37/38
No Resource File		

2. Label elements

Signal Word **Danger**



Hazard Statements

H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		

Precautionary Phrases

P264	Wash hands thoroughly after handling.		
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.		
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P332 + P313	If skin irritation occurs: Get medical advice/attention.		

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P337 + P313 If eye irritation persists: Get medical advice/attention.

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

1-Pyrrolidineacetonitrile Assay:100% CAS Number :29134-29-0

2. Mixtures

Not Relevant

4. First Aid Measures

1. Description of first aid measures

Skin Contact P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

Eye Contact P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

Ingestion Wash out mouth with water.

Inhalation P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2. Most important symptoms and effects

No symptoms.

3. Indication of any immediate medical attention

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Carbon dioxide.

Dry chemical powder.

Water.

Unsuitable Do not use water with a full water jet

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form.

3. Advice for Fire Fighters

Wear protective clothing to prevent contact with skin and eyes.

Wear self-contained breathing apparatus.

6. Accidental Release Measures

1. Personnal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Mix with sand or vermiculite.

Transfer to a suitable container.

4. Preventing the occurence of secondary hazards.

No Special Measures Required

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7. Handling and Storage

1. Personnal Precautions

Safe Handling Handle in fume hood.

Wash hands immediately after contamination. P264: Wash hands thoroughly after handling.

Protection against

P362: Take off contaminated clothing and wash before reuse.

explosions and fires normal measures for preventive fire protection

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Keep container tightly closed.

Store in cool, well ventilated area.

Storage Controls No special requirements

Maintaining Integrity Keep in tightly closed container in cool area away from direct sunlight or heat sources.

Other advice P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hydgiene measures

P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling

Wash hands during breaks and at the end of handling the material

Immediately remove any contaminated clothing

Engineering measures P271: Use only outdoors or in a well-ventilated area.

Ensure there is sufficient ventilation of the area.

Eye / Face Protection Safety Glasses.

Hand protection Protective gloves.

Respiratory protection P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

Respiratory protection not required.

Skin protection Protective clothing.

Other personal protection no data

advice

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Colourless liquid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available

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Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	0.315
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no unusual reactivity

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4.Conditions to Avoid

no specific conditions to avoid

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

In combustion emits toxic fumes of nitrogen oxides.

11. Toxicology information

1. Information

Acute Toxicity no data

Skin corrosion/irritation irritant for skin and mucous membranes

Serious eye

Damage/irritation

irritant effect

Respiratory or skin sensitisation

No sensitizing effect known

Germ Cell mutagenicity

not known

Carcinogenicity

not known

Reproductive toxicity

not known

STOT-single exposure

not known

STOT-repeated exposure

not known

Aspiration hazard

not known

2. Additional

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To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information

1. Toxicity

not known

2. Persistance and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

not known

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Hand over to authorised disposal company as hazardous waste.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. UN Number: 3276

2. Shipping Name: Nitriles, liquid, toxic, n.o.s. (1-Pyrrolidineacetonitrile)

3. Transport hazard class(es): : 6.1 Sub Class :



- 4. Packing group: III
- 5. Environmental hazards:
- 6. Special Precautions for user:
- 7. Transport in bulk:

Road (ADR)

1. UN Number: 3276

2. Shipping Name: NITRILES, LIQUID, TOXIC, N.O.S.

3. Transport hazard class(es): : 6.1 Sub Class :



- 4. Packing group: III
- 5. Environmental hazards:
- 6. Special Precautions for user:
- 7. Transport in bulk:

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Sea (IMDG)

1. UN Number: 3276

2. Shipping Name: Nitriles, liquid, toxic, n.o.s. (1-Pyrrolidineacetonitrile)

3. Transport hazard class(es): : 6.1 Sub Class :



4. Packing group: |||5. Environmental hazards:

6. Special Precautions for user:

7. Transport in bulk: IBCINS: IBC03

UNTANKINS: T7 TANKPROV: TP1 TP28

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

2. Associated risk phrases according to european directive 67/548/EEC

R20	Harmful by inhalation.		
R20/21	Harmful by inhalation and in contact with skin.		
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.		
R20/22	Harmful by inhalation and if swallowed.		
R21/22	Harmful in contact with skin and if swallowed.		
R22	Harmful if swallowed.		
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.		
R23/25	Toxic by inhalation and if swallowed.		
R24/25	Toxic in contact with skin and if swallowed.		
R25	Toxic if swallowed.		
R36	Irritating to eyes.		
R36/37	Irritating to eyes and respiratory system.		
R36/37/38	Irritating to eyes, respiratory system and skin.		
R36/38	Irritating to eyes and skin.		
R37	Irritating to respiratory system.		
R37/38	Irritating to respiratory system and skin.		
R38	Irritating to skin.		
R68/20/21	Harmful: possible risk of irreversible effects through inhalation and in contact with skin.		
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.		
R68/20/22	Harmful: possible risk of irreversible effects through inhalation and if swallowed.		
R68/21/22	Harmful: possible risk of irreversible effects in contact with skin and if swallowed.		

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3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.