

Safety data sheet according to 1907/2006/EC, Article 31

ORGANIC CHEMISTRY

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name 2-Piperidone

Stock number: 52256 CAS Number:

EC number:

1.2 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development

.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Aaron Chemistry GmbH Am Fischweiher 41-43 D-82481 Mittenwald Tel +49 8823 917521

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Informing department:Product safety Tel + 49 8823 917521
1.4 Emergency telephone number:

+49 8823 917521

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable Information concerning particular hazards for human and environment: No information known. Other hazards that do not result in classification No information known.

Labelling according to Regulation (EC) No 1272/2008 Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable 2.3 Other hazards Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: 675-20-7 2-Piperidone Identification number(s): EC number: 211-622-9

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek immediate medical advice.

After skin contact
Instantly wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing Seek medical treatment.
4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

S.1 Extinguishing media
Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
5.3 Advice for firefighters
Protective equipment:
Wear self-contained breathing apparatus.
Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

6.3 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.
6.3 Methods and material for containment and cleaning up: Collect mechanically.

6.4 Reference to other sections
See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.

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Trade name 2-Piperidone

Information about protection against explosions and fires: No information known.

7.2 Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions:

Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

8.1 Control parameters
Components with critical values that require monitoring at the workplace: Not required.
Additional information: No data

8.2 Exposure controls

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use breathing protection with high concentrations.
Protection of hands:
Check protective gloves prior to each use for their proper condition.

Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Material of gloves Impervious gloves
Eye protection: Safety glasses
Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Crystalline White Form: Colour: Not determined Smell: Odour threshold: Not determined Not applicable

pH-value: Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 35-38 °C 255-257 °C Not determined

Flash point:

Water:

> 110 °C Product is not inflammable. Not determined

Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Not determined Not determined Product is not explosive.

Danger of explosion: Critical values for explosion:

Lower: Not determined Not determined Steam pressure: Not applicable. Not determined Not determined Density Relative density Vapour density
Evaporation rate
Solubility in / Miscibility with Not applicable. Not applicable. Readily soluble

Soluble
Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic Not applicable.

kinematic: 9.2 Other information

Not applicable. No further relevant information available

SECTION 10: Stability and reactivity

10.1 Reactivity No information known.
 10.2 Chemical stability Stable under recommended storage conditions.
 Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known 10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: Oxidising agents
10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Acute toxicity: No effects known.

LD/LC50 values that are relevant for classification: No data
Skin irritation or corrosion: May cause irritation
Eye irritation or corrosion: May cause irritation
Sensitization: No sensitizing effect known.
Germ cell mutagenicity: No effects known.
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects known.
Specific target organ system toxicity - repeated exposure: No effects known.
Specific target organ system toxicity - single exposure: No effects known.
Aspiration hazard: No effects known.

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Subacute to chronic toxicity: No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12: Ecological information

12.1 Toxicity

12.1 loxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Additional ecological information:
General notes:

Do not allow material to be released to the environment without proper governmental permits.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment PBT: Not applicable.

vPvB. Not applicable

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Recommendation

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Consult state, local or national regulations for proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Tra	nsport information
UN-Number	

ADR, IMDG, IATA	none	
14.2 UN proper shipping name ADR, IMDG, IATA	None	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA Class	None	
Packing group	None	

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14.5 Environmental hazards: Not applicable Not applicable

14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC

Code Not applicable.

Not dangerous according to the above specifications. Transport/Additional information:

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical Substances Substance is listed.

Standard for the Uniform Scheduling of Drugs and Poisons Substance is not listed.

National regulations

Information about limitation of use: For use only by technically qualified individuals.

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Virial inazaru crass: vivater riazaru crass: i (Self-assessment): Slightly nazardous for Water.

Other regulations, limitations and prohibitive regulations
ELINCS (European List of Notified Chemical Substances) Substance is not listed.

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

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Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information 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.

Department issuing SDS: Global Marketing Department

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IMDG: Globally Harmonized System of Classification and Labelling of Chemicals
EINEGS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
LD50: Lethal dose, 50 percent
UD50: Lethal do

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