Safety data sheet according to Regulation (EC) No. 1907/2006



Revision: 21.06.2011

Printing date 21.06.2011 Version number 1

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

· Product identifier

· Trade name: AGAROSE LOW MELT

· Article number: 6351

· CAS Number: 39346-81-1

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

· Application of the substance / the preparation Laboratory chemical

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Carl Roth GmbH + Co. KG Schoemperlenstraße 3-5 76185 Karlsruhe

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149 E-Mail: info@carlroth.de

· Further information obtainable from: Department Health, Safety and Environment

· Emergency telephone number: Poison Centre Munich Telefon +49/(0)89 19240

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008 Void
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- Other hazards All chemicals are potentially dangerous. They should only be handled by specially trained personnel.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

39346-81-1 Agarose low melting

4 First aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Rinse with water
- After eye contact: Rinse opened eye for 10 minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing:

Rinse out mouth and drink a glass of water. Do not induce vomiting.

If symptoms persist consult doctor.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, powder, foam or water spray.
- · Special hazards arising from the substance or mixture

In the event of fire development of hazardous combustion gases or vapours possible.

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· Advice for firefighters

· **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Do not breathe dust.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:

Pick up mechanically.

Avoid formation of dust

· 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 disposal information.

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection:

Dust can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Storage temperature: +15°C - +25 °C

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- **Respiratory protection:** Required when dusts are generated: filter P1.
- · Protection of hands:



Protective gloves

- · Material of gloves Nitrile, thickness: >0.1 mm
- · Penetration time of glove material

Value for the permeation: Level ≥ 6

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Powder

Colour: white to yellowish

• Odour:
• Odourless
• Odour threshold:
• pH-value:

Not applicable.

· Change in condition

Melting point/Melting range: ~ 60-66°C
Boiling point/Boiling range: Undetermined.

• Flash point: Undetermined.

• Flammability (solid, gaseous): Not determined.

· Ignition temperature:

Decomposition temperature: Not determined.
Self-igniting: Not determined.

• Danger of explosion: The product is not explosive. However, dust may form an explosive mixture

with air.

• **Density:** Not determined.

· Solubility in / Miscibility with

water: Soluble in hot water.

• Segregation coefficient (n-octanol/water): Not determined.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- · Incompatible materials: Strong oxidizing agents, acids.
- · Hazardous decomposition products: No information available.
- · Additional information: Combustible.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification: Quantitative data on the toxicity of this product are not available.
- · Primary irritant effect:
- · on the skin: No irritating effect.
- on the eye: Intense exposure may cause irritative symptoms.
- · after inhalation: Intensive contact with dusts may lead to irritations of the respiratory tract.

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· **Sensitization:** No sensitizing effects known.

· Additional toxicological information:

After swallowing: Strong irritations of the gastrointestinal tract, vomiting, diarrhoea.

• Further information: The product should be handled with the care usual when dealing with chemicals.

12 Ecological information

- · Toxicity
- · Acquatic toxicity: Quantitative data on the ecological effect of this product are not available.
- · Additional ecological information:
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

- · Uncleaned packaging:
- · Recommendation: Disposal according to official regulations.

14 Transport information

- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- **Remarks:** Not subject to transport regulations.
- · Maritime transport IMDG:
- · IMDG Class:
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -
- · UN "Model Regulation": -
- · Special precautions for user Not applicable.

15 Regulatory information

- $\cdot \ Safety, health \ and \ environmental \ regulations/legislation \ specific \ for \ the \ substance \ or \ mixture$
- · National regulations:
- · Waterhazard class: Generally not hazardous for water (German regulation).
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing MSDS: Department: Health, Safety and Environment
- · Contact: Frau Weckemann
- · 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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent