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

Printing date 01.07.2013 Revision: 11.01.2013

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

1.1 Product identifier

Trade name Inulin Stock number: CAS Number: A18425 9005-80-5

EC number: 232-684-3
1.2 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b Zeppelinst. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com

Informing department:

www.alfa.com
www.alfa.com
product safety Tel + +049 (0) 7275 988687-0
Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240 1.4 Emergency telephone number:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC)

The substance is not classified as hazardous to health or the environment according to the CLP regulation. No 1272/2008

Classification according to Directive 67/548/ EEC or Directive 1999/45/EC Not applicable

Information concerning particular hazards for human and environment:

Other hazards that do not result in classification

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
Hazard pictograms

Signal word Hazard statements 2.3 Other hazards

Results of PBT and vPvB assessment

PB₁ vPvB:

Not applicable. Not applicable.

Not applicable Not applicable Not applicable

Not applicable

Not applicable

No information known.

SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: Identification number(s): 9005-80-5 Inulin EC number: 232-684-3

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.

Seek immediate medical advice.
Rinse opened eye for several minutes under running water. Then consult doctor.

Instantly wash with water and soap and rinse thoroughly.

After skin contact

After swallowing

After eve contact

4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents
5.2 Special hazards arising from the substance or mixture

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

Seek medical treatment.

5.3 Advice for mengine Protective equipment: .3 Advice for firefighters

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
Do not allow material to be released to the environment without proper governmental permits.
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.

6.3 Methods and material for containment

and cleaning up: Prevention of secondary hazards: 6.4 Reference to other sections

6.2 Environmental precautions:

Collect mechanically.

No special measures required.
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.

Information about protection against

explosions and fires:

No information known.

(Contd. on page 2)

(Contd. of page 1)

Printing date 01.07.2013 Revision: 11.01.2013

Trade name *Inulin*

7.2 Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and

containers: Information about storage in one common

storage facility: Further information about storage conditions:

No special requirements.

Store away from oxidizing agents.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers. 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.

The product does not contain any relevant quantities of materials with critical values that have to be monitored

8.1 Control parameters

7.3 Specific end use(s)

Components with critical values that require monitoring at the workplace:

at the workplace. No data

Additional information: 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. Use breathing protection with high concentrations. 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.

Breathing equipment: Protection of hands:

Impervious gloves Not determined

Not applicable.

Penetration time of glove material Eye protection: Safety glasses
Protective work clothing. Body protection:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information Appearance:

Material of gloves

Powder Form: Colour: White Smell: Odour threshold: Odourless Not determined

pH-value:

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start:
Inflammability (solid, gaseous)
Ignition temperature:
Decomposition temperature:
Self-inflammability:
Critical values for explosion: Not determined Not determined Not determined Not determined. Not determined Not determined Not determined.

Lower: Upper: Not determined Not determined Steam pressure: Density Not applicable. Not determined Relative density Not determined. Vapour density
Evaporation rate
Solubility in / Miscibility with
Water:
Partition coefficient (n-octanol/water): Not applicable. Not applicable.

Viscosity: dvnamic:

Not applicable.

inematic

Not determined Not determined.

Not applicable. No further relevant information available 9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability

No information known. Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

10.3 Possibility of hazardous reactions 10.5 Incompatible materials: 10.6 Hazardous decomposition products:

No decomposition if used and stored according to specifications. Reacts with strong oxidizing agents

Oxidizing agents Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD/LC50 values that are relevant for

classification:

No data Skin irritation or corrosion: Eye irritation or corrosion: May cause irritation May cause irritation No sensitizing effect known.

No effects known.

No effects known.

Sensitization: Germ cell mutagenicity: Carcinogenicity:

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA

or ACGIH. No effects known. Reproductive toxicity:

(Contd. on page 3)

(Contd. of page 2)

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

Printing date 01.07.2013 Revision: 11.01.2013

Trade name *Inulin*

Specific target organ system toxicity -

Specific target organ system toxicity - repeated exposure:
Specific target organ system toxicity - single exposure:
Aspiration hazard:

Additional toxicological information:

No effects known.

No effects known.

No effects known.

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 Aquatic toxicity:

12.2 Persistence and degradability 12.3 Bioaccumulative potential

12.4 Mobility in soil

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 of it to reach ground water, water bodies or sewage system.

Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment

PBT: vPvB: Not applicable.

12.6 Other adverse effects

Not applicable.
No further relevant information available.

No further relevant information available.

No further relevant information available. No further relevant information available.

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.

SECTION 14: Transport information

UN-Number ADR, ADN, IMDG, IATA

Not applicable

14.2 UN proper shipping name ADR, ADN, IMDG, IATA

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA Class

Not applicable Packing group ADR, IMDG, IATA

14.5 Environmental hazards:

Not applicable Not applicable.

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

UN "Model Regulation":

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical

Standard for the Uniform Scheduling of Drugs and Poisons

Substance is not listed.

Substance is listed.

National regulations Information about limitation of use:

For use only by technically qualified individuals. Water hazard class 1 (Self-assessment): slightly hazardous for water.

Water hazard class:

Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical

Substances)
Substances of very high concern (SVHC)
according to REACH, Article 57
REACH - Pre-registered substances 15.2 Chemical safety assessment:

Substance is not listed.

Substance is not listed. Substance is listed.

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 data specification sheet:
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)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent

DE/E