



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE

1.1. Product identifier

Product Description: Sodium alginate extra pure

Synonyms Algin; Sodium alginate

CAS-No 9005-38-3

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

Recommended Use Laboratory chemicals. Uses advised against No Information available

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom

EU entity/business name

Acros Organics BVBA

Janssen Pharmaceuticaaan 3a

2440 Geel, Belgium

CLP Classification - Regulation (EC) No 1272/2008

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Physical hazards

Based on available data, the classification criteria are not met

2.2. Label elements

Hazard Statements

Precautionary Statements

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Component CAS-No EC-No. Weight % CLP Classification - Regulation (EC) No1272/2008

Alginate acid, sodium salt 9005-38-3 100 - Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Get medical attention. Skin Contact Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Ingestion Clean mouth with water. Get medical attention.

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Inhalation Remove from exposure, lie down. Remove to fresh air. If symptoms persist, call a physician. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Self-Protection of the First Aider No special precautions required. 4.2. Most important symptoms and effects, both acute and delayed
No information available. 4.3. Indication of any immediate medical attention and special treatment needed
Based on available data, the classification criteria are not met
Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol resistant foam. Extinguishing media which must not be used for safety reasons

No information available. 5.2. Special hazards arising from the substance or mixture

Fine dust dispersed in air may ignite. Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), Sodium oxides. 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear. Thermal decomposition can lead to release of irritating gases and vapors. SECTION

6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. 6.2. Environmental precautions

See Section 12 for additional Ecological Information. 6.3. Methods and material for containment and cleaning up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Do not breathe dust. Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before use. Wash hands before breaks and after work. 7.2. Conditions for safe storage, including any incompatibilities

in a dry, cool and well-ventilated place. Keep container tightly closed. Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK)

(Germany)

Class 11

7.3. Specific end use(s)

Use in laboratories

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1. Control parameters

Exposure limits

List source(s):

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration

(PNEC)

No information available. 8.2. Exposure controls

Engineering Measures

None under normal use conditions. Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (European standard - EN166)

Hand Protection Protective gloves

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Route of exposure Acute effects (local) Acute effects

(systemic)

Chronic effects

(local)

Chronic effects (systemic)

Oral

Dermal

Inhalation

Glove material Breakthrough time Glove thickness EU standard Glove comments Natural rubber

Nitrile rubber

Neoprene

PVC

Butyl rubber

See manufacturers

recommendations

- EN 374 (minimum requirement)

observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care

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avoiding skin contamination. Respiratory Protection No protective equipment is needed under normal use conditions. Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particle filter 2

Small scale/Laboratory use Maintain adequate ventilation

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN141

Environmental exposure controls No information available. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1. Information on basic physical and chemical properties

Particle characteristics No data available

9.2. Other information

Evaporation Rate Not applicable - Solid

SECTION 10: STABILITY AND REACTIVITY

Physical State Powder Solid

Appearance Dark yellow

Odor Odorless

Odor Threshold No data available

Melting Point/Range > 300 °C / 572 °F

Softening Point No data available

Boiling Point/Range No information available

Flammability (liquid) Not applicable Solid

Flammability (solid, gas) No information available

Explosion Limits No data available

Flash Point No information available Method - No information available

Autoignition Temperature No data available

Decomposition Temperature No data available

pH 5.5-7.5 1% aq.sol. (20°C)

Viscosity Not applicable Solid

Water Solubility Slightly soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Vapor Pressure No information available

Density / Specific Gravity No data available

Bulk Density No data available

Vapor Density Not applicable Solid

1. Reactivity None known, based on information available

10.2. Chemical stability

Hygroscopic.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions No information available. 10.4. Conditions to avoid

Incompatible products. 10.5. Incompatible materials

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Strong oxidizing agents. Strong acids. Strong bases. 10.6. Hazardous decomposition products
Carbon monoxide (CO). Carbon dioxide (CO₂). Sodium oxides. SECTION 11: TOXICOLOGICAL
INFORMATION 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Product Information No acute toxicity information is available for this product

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met

Dermal No data available

Inhalation No data available

Component LD50 Oral LD50 Dermal LC50 Inhalation Algenic acid, sodium salt LD50 > 5 g/kg (Rat) - -

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available

Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

STOT-repeated exposure; No data available

Target Organs No information available. (j) aspiration hazard; Not applicable

Solid

Other Adverse Effects The toxicological properties have not been fully investigated. Symptoms /
effects, both acute and
delayed

No information available. 11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This
product does not contain any known or suspected endocrine disruptors. SECTION 12: ECOLOGICAL
INFORMATION

12.1. Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not
degradable in waste water treatment plants. 12.2. Persistence and degradability

Persistence based on information available, May persist. 12.3. Bioaccumulative potential May have
some potential to bioaccumulate

12.4. Mobility in soil Is not likely mobile in the environment due its low water solubility. 12.5. Results
of PBT and vPvB
assessment

No data available for assessment. 12.6. Endocrine disrupting
properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine
disruptors

12.7. Other adverse effects

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Persistent Organic Pollutant This product does not contain any known or suspected substance
Ozone Depletion Potential This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. Contaminated Packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific. Other Information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required

14.7. Maritime transport in bulk

according to IMO instruments

Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

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X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia(AICS), Korea (ECL).

Component EINECS ELINCS NLP TSCA DSL NDSL PICCS ENCS IECSC AICSKECLAlgenic acid, sodium salt -
- X X - X X X XKE-00492Regulation (EC) No 649/2012 of the European Parliament and of the Council
of 4 July 2012 concerning the export andimport of dangerous chemicals

Not applicable

National Regulations

WGK Classification See table for values

Germany - Water Classification (VwVwS) Germany - TA-Luft Class

Algenic acid, sodium salt WGK1

Component France - INRS (Tables of occupational diseases)

Algenic acid, sodium salt Tableaux des maladies professionnelles (TMP) - RG 66bis

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005
Amendment

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

Legend

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal
Protective Equipment (PPE)andhygiene.

Creation Date 10-Feb-2011

Revision Date 01-Jan-2021

Revision Summary Update to CLP Format. This safety data sheet complies with the requirements of
Regulation (EC) No. 1907/2006COMMISSION REGULATION (EU) 2020/878 amending Annex II to
Regulation (EC) No1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge,
information andbelief at theCAS - Chemical Abstracts Service TSCA - United States Toxic Substances
Control Act Section 8(b)

Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical
Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-DomesticSubstances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japanese Existing and
New Chemical Substances



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IECSC - Chinese Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer

DNEL - Derived No Effect Level Predicted No Effect Concentration (PNEC)

RPE - Respiratory Protective Equipment LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50% EC50 - Effective Concentration 50%

NOEC - No Observed Effect Concentration POW - Partition coefficient Octanol: Water

PBT - Persistent, Bioaccumulative, Toxic vPvB - very Persistent, very Bio ccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

MARPOL - International Convention for the Prevention of Pollution from Ships

OECD - Organisation for Economic Co-operation and Development ATE - Acute Toxicity Estimate

BCF – Bio concentration factor VOC (volatile organic compound)

of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text