1 Identification of the substance/mixture and of the company

1.1 Product identifier

Carboxymethyl starch, sodium salt

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>ULTRAMYL</th>
</tr>
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1.2 Relevant identified uses of the substance or mixture and uses advised against

As disintegrant for the manufacturing of tablets and capsules of pharmaceutical actives and nutritional supplements.

1.3 Details of the supplier of the safety data sheet

GUSTAV PARMENTIER GmbH
Eichendorffstrasse 37
D-60320 Frankfurt am Main
GERMANY
Tel.: + 49 (0)69 / 56 10 34
Fax: + 49 (0)69 / 56 85 18
e-Mail: msds@parmentier.de

1.4 Emergency telephone number

Giftinformationszentrum Mainz
Langenbeckstrasse 1
D-55131 Mainz
GERMANY
Tel.: + 49 (0)6131 / 19240

2 Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

None

2.3 Other hazards

No hazardous effects on health and environment known.

3 Composition/information on ingredients

3.1 Substances

Sodium Carboxymethyl Starch
CAS-No.: 9063-38-1
4 First aid measures

4.1 Description of first aid measures
After eye and skin contact flush off with water. After ingestion drink sufficient water. Consult a physician if feeling unwell. After inhalation move affected person to fresh air. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
Gastro-intestinal disorder

4.3 Indication of any immediate medical attention and special treatment needed
If problems resist, consult a physician.

5 Firefighting measures

5.1 Extinguishing media
All known extinguishing agents

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Use air supplied equipment for fighting interior fires.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Do not inhale vapors/ mist/ gas.

6.2 Environmental precautions
Keep away in larger quantities from bodies of water or sewage systems.

6.3 Methods and material for containment and cleaning up
Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7 Handling and storage

7.1 Precautions for safe handling
Avoid formation of dust and aerosols. Assure adequate ventilation after dust formation. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
No data available
8 Exposure controls/personal protection
8.1 Control parameters
Does not contain substances with maximum allowable concentrations.

8.2 Exposure controls
General industrial hygiene practice

9 Physical and chemical properties
9.1 Information on basic physical and chemical properties

a) Appearance: White powder
b) Odour: Neutral
c) Odour threshold: No data available
d) pH-Value: 5.5 - 7.5
e) Melting point/freezing point: Decomposition from approx. 200 °C
f) Initial boiling point and boiling range: Decomposition before ebullition
g) Flash point: No data available
h) Evaporation rate: No data available
i) Flammability (solid): No data available
j) Upper/lower flammability or explosive limits: No data available
k) Vapour pressure: No data available
l) Vapour density: No data available
m) Relative density: Approx. 1.5 g/ml
n) Solubility(ies): It gives a translucent suspension in water. Practically insoluble in methylene chloride.
o) Partition coefficient: n-octanol/water: No data available
p) Auto-ignition temperature: No data available
q) Decomposition temperature: From approx. 200 °C
r) Viscosity (2% w/v at 25 °C): Approx. 4.3 mPas
s) Explosive properties: No data available
t) Oxidising properties: No data available

9.2 Other information
None
10 Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
No hazardous reactions known.

10.4 Conditions to avoid
Exposure to moisture may affect product quality.

10.5 Incompatible materials
Incompatible with strong oxidizing agents.

10.6 Hazardous decomposition products
No hazardous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity:
No data available

b) Skin corrosion/irritation:
No data available

c) Serious eye damage/irritation:
No data available

d) Respiratory or skin sensitisation:
No data available

e) Germ cell mutagenicity:
No data available

f) Carcinogenicity:
No data available

g) Reproductive toxicity:
No data available

h) STOT-single exposure:
No data available

i) STOT-repeated exposure:
No data available

j) Aspiration hazard:
No data available

12 Ecological information

12.1 Toxicity
Water hazard class 1 (according to Annex 3 of VwVwS from 17.05.1999)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
No data available

13 Disposal considerations

13.1 Waste treatment methods
Remove mechanically. Burning or deposition.
Material Safety Data Sheet acc. REACH
conform to Annex II (Requirements for the compilation of safety data sheets), Directive EU 453/2010 (20.05.2010)

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14 Transport information

14.1 UN number                 None
14.2 UN proper shipping name    None
14.3 Transport hazard class(es) The product is not classified in ADR/IATA/IMGD/RID - guidelines.
14.4 Packing group              None
14.5 Environmental hazards     None
14.6 Special precautions for user None
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code None

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture None
15.2 Chemical safety assessment   No obligatory information on health and environmental protection

16 Other information

For further product information please see: www.parmentier.de