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 Printing date: 01.10.2003  
 CARBETAMEX

## Safety Data Sheet according to EEC-Regulation 91/155/EEC

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

**CARBETAMEX**  
**700 g/kg Carbetamide**

#### Use of the substance/preparation

Herbicide

#### Company/undertaking identification

Feinchemie Schwebda GmbH, Strassburger Str. 5, D-37269,  
 Eschwege  
 Telephone ++49 (0)5651/9237-0, Fax ++49 (0)5651/22442

#### Emergency telephone / Office for advice

##### Advisory office in case of poisoning:

Tel.: (UK-London) 0207 635 9191

##### Telephone number of the company in case of emergencies:

Tel. ++49 (0)5651/9237-0

### 2. Composition/information on ingredients

Formulation:

Water-dispersible powder

2.1 Chemical name	cont nt %	sy mb ol	R- phas es	CAS	EINE CS, ELINC S
Sodium carbonate	1 -< 20	Xi	36		207- 838-8
Silica, amorphous	15 - 25			n.v.	---
Alkyl-naphthal insulfonate/ Formaldehyd e polymer	1 -< 20	Xi	36/38	n.v.	---

For complete wording of the R-phrases, refer to point 16.

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of  
 directive 1999/45/EG.

#### 3.2 To the environment

See point 12.

k.D.v.

### 4. First aid measures

#### 4.1 Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to  
 symptoms.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek  
 medical help if necessary.

#### 4.3 Skin contact

Wash thoroughly using copious water - remove contaminated  
 clothing immediately. If skin irritation occurs (redness etc.),  
 consult doctor.

#### 4.4 Ingestion

Give copious water to drink - consult doctor immediately.

Keep Data Sheet available.

#### 4.5 Special resources necessary for first aid

n.g.

### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing media

Adapt to the nature and extent of fire.

#### 5.2 Extinguishing media which must not be used for safety reasons

k.D.v.

#### 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Vapours hazardous to health

Organic decomposition products

Oxides of carbon

Oxides of nitrogen

#### 5.4 Special protective equipment for fire- fighters

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

#### 5.5 Further information

Dispose of contaminated extinction water according to official  
 regulations.

### 6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

#### 6.1 Personal precautions

Ensure sufficient supply of air.

Avoid build up of dust.

Avoid inhalation, and contact with eyes or skin.

#### 6.2 Environmental measures

Prevent surface and ground-water infiltration, as well as ground  
 penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform  
 responsible authorities.

#### 6.3 Methods for cleaning up

Collect mechanically and dispose of according to point 13.

As a precaution, douse dust with water.

### 7. Handling and storage

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### 7.1 Handling

#### Tips for safe handling:

See point 6.1

Ensure good ventilation.

Avoid build up of dust.

Observe directions on label and instructions for use.

General hygiene measures for the handling of chemicals are applicable.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Wash hands before breaks and at end of work.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Observe regulations for keeping separated.

Store products only unopened, in original packing.

Not to be stored in gangways or stair wells.

#### Special storage conditions:

See point 10.2

Protect against moisture and store closed.

Protect from frost.

## 8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the OES, MEL or MAK values,

suitable breathing protection should be worn.

Chemical name	cont ent %	OES, MEL, MAK, TRK	BM GV, BAT
general dust limit		10 mg/m <sup>3</sup> (inhal. dust), 4 mg/m <sup>3</sup> (respir. dust)	
Silica, amorphous	15 - 25	6 mg/m <sup>3</sup> (inh.), 2,4 mg/m <sup>3</sup> (res.)	

8.1 Respiratory protection: If OES-, MEL- or MAK-value is exceeded.

Breathing mask with fine-dust filter (EN 143).

8.2 Hand protection: Protective Neopren gloves (EN 374).

Protective nitrile gloves (EN 374)

Protective hand cream recommended.

8.3 Eye protection: Tight fitting protective goggles with side protection (EN 166).

8.4 Skin protection: Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance

so it has to be tested before use. The exact breakthrough time of the glove material can be

requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:	Solid, powder
Colour:	Grey , Beige
Odour:	Odourless
1 % pH-value:	~ 9,5 (CIPAC MT 75)
Boiling point / range (°C):	k.D.v.
Melting point / range (°C):	~ 110 *
Flash point (°C):	n.a.
Flammability (solid/gas):	not highly flammable (EEC A10) *
Autoflammability:	> 400°C (EEC A16) *
Oxidising properties:	No *
Minimum limit of explosion:	No *
Maximum limit of explosion:	n.a. *
Vapour pressure:	3 * 10 <sup>-7</sup> Pa (20°C) (OECD104) *
Relative density (g/ml):	k.D.v.
Bulk density:	n.g.
Solubility in water:	~ 3 g/l (pH 5 - 9, 23°C) (EEC A6) *
Partition coefficient (n-octanol/water):	log Pow ~ 1,7 *
Surface tension:	68,6 mN/m (20°C) (EEC A5) *

\* Carbetamide

## 10. Stability and reactivity

### 10.1 Conditions to avoid

See point 7

Stable when handled and stored correctly.

Protect from humidity.

### 10.2 Materials to avoid

See point 7

Avoid contact with other chemicals.

### 10.3 Hazardous decomposition products

See point 5.3

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## 11. Toxicological information

### 11.1 Acute toxicity and immediate effects

11.1.1 Ingestion, LD50 rat oral (mg/kg):	> 7143
11.1.2 Inhalation, LC50 rat inhal.(mg/l/4h):	> 0,13 g/m <sup>3</sup> *
11.1.3 Skin contact, LD50 rat dermal (mg/kg):	> 857
11.1.4 Eye contact:	n.v.

### 11.2 Delayed and chronic effects

11.2.1 Sensitization: No (Magnusson/Kligman) *	
11.2.2 Carcinogenicity:	NOEL (2y, rat) 160 ppm (6 - 8 mg/kg bw/day) *
11.2.3 Mutagenicity: Negative *	
11.2.4 Reproductive toxicity:	NOEL (2 gen., rat) 3000 ppm (150 mg/kg bw/day) *
11.2.5 Narcosis:	k.D.v.

### 11.3. Further information

Classification based on toxicological analyses.

ADI 0,03 mg/kg bw/day

\* Carbetamide

## 12. Ecological information

Water hazard class:	1
Self classification:	Yes (VwVwS)
Persistence and degradability:	k.D.v.
Behaviour in sewage plants:	k.D.v.
Aquatic toxicity:	
Toxicity to fish:	
LC50 Oncorhynchus mykiss > 100 mg/l/96h (OECD) *	
Toxicity to daphnia:	
EC50 36,5 mg/l/48h (OECD 202) *	
Toxicity to algae:	
EC50 Chlorella vulgaris 200 mg/l/96h (OECD) *	
Ecological toxicity:	k.D.v.

\* Carbetamide

## 13. Disposal considerations

### 13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

02 01 08 - agrochemical waste containing dangerous substances

20 01 19 - pesticides

07 04 99 - wastes not otherwise specified

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

Waste needs special observation measures (according to Waste Types Catalogue).

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Empty container completely.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## 14. Transport information

### General statements

UN-Number: n.a.

### Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

### Transport by sea

IMDG-code: n.a. (class/packing-group)

Marine Pollutant: n.a.

### Transport by air

IATA: n.a. (class/secondary danger/packing-group)

### Additional information:

Non-dangerous material according to Transport Regulations.

## 15. Regulatory information

### Classification according to Dangerous Product Regulations incl. EC Guidelines (67/548/EEC and 1999/45/EC)

Symbols: Not applicable

Indications of danger: ---

R-phrases:

S-phrases:

22 Do not breathe dust.

Additions:

To avoid risks to man and the environment, comply with the instructions for use.

Observe restrictions: n.a.

## 16. Other information

These details refer to the product as it is delivered.

Storage class VCI

(Germany): 13

Revised points: 3, 9, 11, 12, 15

Observe plant protection medium law.

36 Irritating to eyes.

36/38 Irritating to eyes and skin.

### Legend:

n.a. = not applicable / n.v., k.D.v. = not available / n.g. = not checked / OES = Occupational exposure standard  
 MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value / MAK = Maximum concentration for work place

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(Germany) / TRK = Technical guidance concentration

(Germany) / BAT = Biological tolerance for work place

(Germany)

VbF = Regulations for flammable liquids (Germany) / TRbF =

Technical regulations for flammable liquids (Germany)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC-CH=Volatile organic compounds(VOCV -

Switzerland)/AOX=Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances

hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Beim Staumberge 3, D-32839 Steinheim, Tel.: 01805-CHEMICAL / 01805-243 642, Fax: 05233-941790**

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