

Material Safety Data Sheet
According to 91/155 EC

Printing date 15.10.2002

Reviewed on 11.09.2002

1 Identification of substance:**Product details:**

- Trade name: Acrylamide
- Application of the substance / the preparation Copolymer

Supplier/Manufacturer:

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Information department:

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Emergency information:

National Poisons Information Centre Tel.: 112

2 Composition/Data on components:**Chemical characterization:**

CAS No. Description:
79-06-1 acrylamide

Identification number(s):

- EINECS Number: 2011737
- EU Number: 616-003-00-0

3 Hazards identification**Hazard description:** T Toxic**Information pertaining to particular dangers for man and environment:**

- R 45 May cause cancer.
- R 46 May cause heritable genetic damage.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 25 Toxic if swallowed.
- R 36/38 Irritating to eyes and skin.
- R 43 May cause sensitisation by skin contact.
- R 48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
- R 62 Possible risk of impaired fertility.

Classification system:

The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

Additional information:

Acrylamaide is a strong neurotoxin. Absorption mainly by skin contact.

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*** 4 First aid measures****• General information:**

Remove contaminated clothing and wash before reuse.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

In case of unconsciousness, place patients on their side in a stable position for transportation.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing:

Do not induce vomiting.
Try not to vomit. Swallow activated carbon and sodium sulphate.
Immediately consult a physician and show the packing, the label or this safety data sheet.

• Information for doctor:

• The following symptoms may occur: Numbness in fingers, arms and legs.

*** 5 Fire fighting measures****• Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:
Nitrose gases. Persons, who have inhaled nitrose gases, lay down and keep quiet. Call a doctor immediately.

• Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.

• Additional information:

Heating leads to pressure increase entailing danger of bursting and explosion. Immediately cool neighbouring packages and containers with sprayed water and, if possible, remove them out of the danger zone
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

*** 6 Accidental release measures****• Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.

• Measures for environmental protection:

Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
In case of seepage into the ground inform responsible authorities.

(Contd. on page 3)

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(Contd. of page 2)

- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Avoid dust formation absolutely. If necessary pick up with a tested and approved industrial vacuum cleaner.
Dispose contaminated material as waste according to item 13.
Send for recovery or disposal in suitable receptacles.
 - **Additional information:** Keep ignition sources away. Do not smoke.
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* **7 Handling and storage**

- **Handling**
 - **Information for safe handling:**
Open and handle receptacle with care.
Prevent formation of dust.
Any deposit of dust which cannot be avoided must be regularly removed.
Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
Ensure good ventilation/exhaustion at the workplace.
Restrict the quantity stored at the work place.
 - **Information about protection against explosions and fires:**
Keep respiratory protective device available.
Dust can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges
 - **Storage**
 - **Requirements to be met by storerooms and receptacles:**
Store only in unopened original receptacles.
Prevent any seepage into the ground.
 - **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from feed.
Do not store together with oxidizing and self-igniting substances or together with easily ignited solid materials.
For storage observe regulations for toxic materials.
 - **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
Store under lock and key and with access restricted to technical experts or their assistants only.
 - **Storage class** 6.1A flammable toxic substances
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* **8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:
79-06-1 acrylamide
OEL: Short-term value: 0.6 mg/m³
Long-term value: 0.3 mg/m³
- **Additional information:**
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove soiled soaked clothing and use again only after

(Contd. on page 4)

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Trade name: Acrylamide

(Contd. of page 4)

- **Additional information:** Soluble in the most organic solvents.
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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
 - **Materials to be avoided:**
Acids
Oxidants
Copper
ironsalts
Aluminium
 - **Dangerous reactions:** Danger of polymerization
 - **Dangerous products of decomposition:**
In the case of fire or at high temperatures the formation of the following decomposition products is possible.
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Ammonia
 - **Additional information:**
On exposure to light polymerisation may occur
Do not warm up above 50°C.
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* **11 Toxicological information**

- **Acute toxicity:**
LD/LC50 values that are relevant for classification:
Oral: LD50: 124 mg/kg (rat)
Dermal: LD50: 400 mg/kg (rat)
 - **Primary irritant effect:**
• **on the skin:** Irritant to skin and mucous membranes.
• **on the eye:** Irritating effect.
 - **Sensitization:** Sensitization possible through skin contact.
 - **Other information (about experimental toxicology):**
Carc. Cat. 2
Muta.Cat. 2
Rep. Kat. 3 (cause concern to humans owing to possible developmental toxic effects)
 - **Additional toxicological information:** Danger by skin adsorption.
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12 Ecological information

- **General notes:**
Water danger class 3 (German Regulation) (Assessment by list):
extremely hazardous for water.
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
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* **13 Disposal considerations**

- **Product:**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **European waste catalogue:**
07 00 00: Wastes from organic chemical processes
07 01 00: waste from the manufacture, formulation, supply and use

(Contd. on page 6)

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Trade name: Acrylamide

(Contd. of page 5)

(MFSU) of basic organic chemicals
07 01 99: wastes not otherwise specified

- **Uncleaned packagings:**
 - **Recommendation:**
Disposal must be made according to official regulations.
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* **14 Transport information**

- **Land transport ADR/RID (cross-border)**
 - **ADR/RID class:** 6.1 (T2) Toxic substances.
 - **Danger code (Kemler):** 60
 - **UN-Number:** 2074
 - **Packaging group:** III
 - **Label:** 6.1
 - **Description of goods:** Acrylamide

 - **Maritime transport IMDG:**
 - **IMDG Class:** 6.1
 - **UN Number:** 2074
 - **Label:** 6.1
 - **Packaging group:** III
 - **EMS Number:** 6.1-04
 - **Marine pollutant:** No
 - **Proper shipping name:** ACRYLAMIDE, SOLID

 - **Air transport ICAO-TI and IATA-DGR:**
 - **ICAO/IATA Class:** 6.1
 - **UN/ID Number:** 2074
 - **Label:** 6.1
 - **Packaging group:** III
 - **Proper shipping name:** ACRYLAMIDE
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* **15 Regulations**

- **Markings according to EC guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
EC-labelling

- **Code letter and hazard designation of product:** T Toxic

- **Risk phrases:**
 - 45 May cause cancer.
 - 46 May cause heritable genetic damage.
 - 20/21 Harmful by inhalation and in contact with skin.
 - 25 Toxic if swallowed.
 - 36/38 Irritating to eyes and skin.
 - 43 May cause sensitisation by skin contact.
 - 48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
 - 62 Possible risk of impaired fertility.

- **Safety phrases:**
 - 53 Avoid exposure – obtain special instructions before use.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- **National regulations**

(Contd. on page 7)

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(Contd. of page 6)

• Water hazard class:

Water danger class 3 (Assessment by list): extremely hazardous for water.

*** 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.

• Reasons for amendments:

EC-directive: 2001/58/EC

EC-directive: 2001/59/EG

Reform of ADR structure

General revision

• * Data compared to the previous version altered.

Changes have been made to chapters marked with a *, as compared to the previous version.

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