

Material Safety Data Sheet
According to 91/155 EC

Printing date 01.09.97

Reviewed on 18.12.95

1 Identification of substance:

- Product details:
- Trade name: Tramadol Hydrochloride
- Article number: 9006400
- Manufacturer/Supplier:
HEUMANN PHARMA GMBH
Nürnberg Str. 12
90537 Feucht
Tel. 09128/404 0
- Informing department: Abteilung Chemische Produktion
- Emergency information:
Dr. Mörsdorf
Tel. 09128 404538
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2 Composition/Data on components:

- Chemical characterization:
CAS No. Designation:
36282-47-0 Cyclohexanol, 2-[(dimethylamino)methyl]-1-(3-methoxyphenyl)- hydrochloride, cis-(.-.-) (Cas-Name)
- Identification number(s):
- EINECS Number: 2529502

3 Hazards identification

- Hazard designation:



Xn Harmful

- Information pertaining to particular dangers for man and environment
R 22 Harmful if swallowed.

4 First aid measures

- General information
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact The product is not skin irritating.
- After eye contact
Rinse opened eye for several minutes under running water.
- After swallowing Instantly call for doctor.

5 Fire fighting measures

- Suitable extinguishing agents
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- Protective equipment: No special measures required.

Material Safety Data Sheet
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Page 3/4

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9 Physical and chemical properties:

- Form: Crystalline powder
- Colour: White
- Odour: Odourless

- Change in condition

Value/Range Unit Method

- Melting point/Melting range:

180-181 ° C

- Boiling point/Boiling range:

Not determined

- Flash point:

Not applicable

- Inflammability (solid, gaseous)

Product is not inflammable.

- Danger of explosion:

Product is not explosive.

- Density

Not determined

- Solubility in / Miscibility with

- Water:

Readily soluble

- pH-value: (10 g/l) at 20 ° C

5.4

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Dangerous reactions Reacts with strong oxidizing agents
- Dangerous products of decomposition: Hydrogen chloride (HCl)

11 Toxicological information

- Acute toxicity:

LD/LC50 values that are relevant for classification:

Cyclohexanol, 2-[(dimethylamino)methyl]-1-(3-methoxyphenyl)-

hydrochloride, cis-(.-.) (Cas-Name)

Oral: LD50: 228 (rat)

- Primary irritant effect:

- on the skin: No irritant effect.

- on the eye: No irritant effect.

- Sensitization: No sensitizing effect known.

12 Ecological information:

- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

Material Safety Data Sheet
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Page 4/4

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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.
- Uncleaned packagings:
- Recommendation:
Disposal must be made according to official regulations.
- Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport information

- Transport/Additional information:
Not dangerous according to the above specifications.

15 Regulatory information

- Designation according to EC guidelines:
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- Code letter and hazard designation of product: Xn Harmful
- Risk phrases: 22 Harmful if swallowed.
- Safety phrases:
20 When using do not eat or drink.
22 Do not breathe dust.
- National regulations
- Water hazard class:
Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing data specification sheet:
Abteilung Chemisch-Pharmazeutische Information
- Contact: Mrs. Dersch