

SAFETY DATA SHEET
according to EC directive 1907/2006

Version: 3.0 Update : 26.06.2013
Date : 26.06.2013

TEGOAMIN DMCHA

- General advice : Remove soiled or soaked clothing immediately
- After inhalation : Ensure supply of fresh air.
Summon a doctor immediately.
- After contact with skin : Immediate medical treatment necessary, as untreated burns
can result in slow-healing wounds
- After contact with eyes : In case of contact with eyes rinse thoroughly with plenty of
water and seek medical advice
- After ingestion : Rinse out mouth and give plenty of water to drink.
Summon a doctor immediately.

The most important acute and delayed symptoms and effects

Symptoms : Causes burns.

Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.
- Unsuitable extinguishing media : not applicable
- Special hazards arising from the substance or mixture : In the event of fire the following can be released:
- carbon dioxide, carbon monoxide
- Nitrogen oxides (NOx)
Under certain conditions of combustion traces of other toxic substances cannot be excluded
- Advice for fire-fighters : Do not inhale explosion and/or combustion gases
Use self-contained breathing apparatus
- Further information : Collect contaminated firefighting water separately, must not be
discharged into the drains.

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Skin and body protection : protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Colour : colourless to yellowish
Odour : amine-like

Smell threshold : not measured

Melting point : < -77 °C
Source: Literaturwert

Boiling point : 162,3 °C
at 1.013 hPa

Flash point : 41 °C
Method: DIN EN 22719 (DIN 51758)

Evaporation rate : not measured

Ignition temperature : 200 °C
Method: DIN 51794

Autoignition temperature : not measured

Thermal decomposition : < 340 °C

Lower explosion limit : 3,6 %(V)

Upper explosion limit : 19 %(V)

Vapour pressure : 3,17 hPa
at 21,5 °C
Method: OECD 104

Density : 0,85 g/cm³
at 20 °C

Relative vapour density : not measured

Water solubility : 13,4 g/l
at 20 °C

pH : 12
at 5 g/l
at 20 °C

Partition coefficient (n-octanol/water) : not measured

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Viscosity, dynamic : 1,16 mPa.s
at 25 °C

Explosive properties : Not to be expected in view of the structure

Oxidizing properties : Not to be expected in view of the structure

Metal corrosion : not measured

10. STABILITY AND REACTIVITY

Reactivity : see section "Possibility of hazardous reactions"

Chemical stability : The product is stable under normal conditions.

Possibility of hazardous reactions : Strong exothermic reaction with acids.

Conditions to avoid : Open flames, sparks or input of much heat

Incompatible materials : acids

Hazardous decomposition products : Hazardous decomposition products:
Nitrous gases
Nitrous oxides (NO_x)
Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50
Species: rat
Dose: 272 mg/kg

Acute inhalation toxicity : LC50
Species: rat
Dose: > 1,7 - 5,8 mg/l
Exposure time: 6 h
Test atmosphere: Vapour

Acute dermal toxicity : LD50
Species: rat
Dose: 380 mg/kg
Method: OECD 402

Skin irritation : Species: rabbit
corrosive

Eye irritation : corrosive

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Sensitization : Species: mouse
Classification: Did not cause sensitization on laboratory animals.
non-sensitizing
Method: OECD 429 (LLNA-Test)

Risk of aspiration toxicity : No aspiration toxicity classification

Repeated dose toxicity : no data available

Judgement STOT - single exposition : no data available

Judgement STOT - repeated exposure : no data available

CMR assessment

Carcinogenicity : no data available

Mutagenicity : no data available

Teratogenicity : no data available

Toxicity to reproduction : no data available

Remarks : Causes burns
With nitrites or nitrous acid nitrosamines may be formed under special conditions. These have been proven to be carcinogenic in animal experiments.
Toxic by inhalation.
toxic in contact with skin.
Harmful if swallowed.

REGULATION (EC) No. 1272/2008

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

Causes severe skin burns and eye damage.

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12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biological degradability : 90 - 100 %
Testing period: 18 d
readily degradable
Method: OECD 301 A

Ecotoxicity effects

Toxicity to fish : LC50
Species: *Leuciscus idus*
Dose: 31,58 mg/l
Exposure time: 96 h
Method: DIN 38412 T.15
The details of the toxic effect relate to the nominal concentration.
After neutralization no more toxicity can be observed.

LC50
Species: *Oncorhynchus mykiss*
Dose: 28 mg/l
Exposure time: 96 h
Method: OECD 203 / ISO 7346 / EEC 84/449/V, C1

Toxicity to bacteria : EC10
Species: *Pseudomonas putida*
Dose: 137 mg/l
Exposure time: 17 h
Method: DIN 38412 T.8
The details of the toxic effect relate to the nominal concentration.

Toxicity to daphniae : EC50
Species: *Daphnia magna*
Dose: 75 mg/l
Exposure time: 48 h
Method: OECD 202
The details of the toxic effect relate to the nominal concentration.

Toxicity to algae : EC50
Species: *Scenedesmus subspicatus*
Dose: > 2 mg/l
Exposure time: 72 h
Method: DIN 38412 T.9
The details of the toxic effect relate to the nominal concentration.

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EC10
Species: Scenedesmus subspicatus
Dose: 0,0784 mg/l
Exposure time: 72 h
Method: DIN 38412 T.9
The details of the toxic effect relate to the nominal concentration.

Further ecological information

Remarks : Do not allow to enter soil, waterways or waste water canal.
The product is considered to be a weak water pollutant (German law).

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local authority regulations, take to special waste incineration plant
Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. TRANSPORT INFORMATION**Land transport**

ADR:
Class : 8
Packaging group : II
Orange plate : Hazard no.: 83
Substance number: 2264
Description of the goods : 2264 N,N-DIMETHYLCYCLOHEXYLAMINE
Hazard release :
Label : 8 corrosive substance, 3 danger of fire (flammable liquid)

RID:
Class : 8
Packaging group : II
Orange plate : Hazard no.: 83
Substance number: 2264
Description of the goods : 2264 N,N-DIMETHYLCYCLOHEXYLAMINE
Hazard release :
Label : 8 corrosive substance, 3 danger of fire (flammable liquid)

Inland navigation transport

ADNR:
Class : 8
Item : CF1

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Description of the goods : 2264 N,N-DIMETHYLCYCLOHEXYLAMINE
 Hazard release :
 Label : 8 corrosive

Sea transport

IMDG:
 Class : 8
 Packaging group : II
 UN-No : 2264
 EmS : F-E, S-C
 Correct technical name : N,N-DIMETHYLCYCLOHEXYLAMINE
 Hazard release :
 Label : 8 corrosive, 3 flammable liquid
 Other information : Stowage category A - Clear of living quarters, "Separated from" acids - Seg.Grp.: Alkalis

Air transport

ICAO/IATA:
 Class : 8
 Packaging group : II
 UN-No : 2264
 Correct technical name : N,N-Dimethylcyclohexylamine
 Hazard release :
 Label : 8 Corrosive, 3 Flammable Liquid

15. REGULATORY INFORMATION

National legislation / regulations

Comply with national and local legal regulations.

Germany

TA Luft (Germany) : Class: Paragraph 5.2.5 (no class)

Observe local authority regulations corresponding to the german incident regulation (StörfallV). : 6

Water contaminating class : 1 (Classification acc. to German law)
KBwS-No.: 1.144

Risk classification according to BetrSichV (Germany) : Flammable.

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Other regulations : Special local regulations must be adhered to when using products containing irritating or corrosive substances. BG Info Sheet M 050 "Activities Involving Hazardous Substances"
Special local regulations must be adhered if using organic solvents
Precautions to be observed for storage of flammable / readily flammable products: TRGS 510 "Storage of Hazardous Substances in Movable Containers".

Chemical safety assessment : No chemical safety assessment was carried out for this product.

16. OTHER INFORMATION

Comply with national laws regulating employee instruction.

Glossary

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
BCF	Bioconcentration factor
BetrSchV	German Ordinance on Industrial Safety and Health
CMR	carcinogenic-mutagenic-toxic for reproduction
DNEL	Derived no effect level
GLP	Good Laboratory Practice
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, bioaccumulative, toxic
PNEC	Predicted no effect concentration
RID	Convention concerning International Carriage by Rail
TA	Technical Instructions
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
EC50	half maximal effective concentration
STOT	Specific Target Organ Toxicity
OEL	Occupational Exposure Limit
PEC	Predicted effect concentration
NOEC	no observed effect concentration
NOEL	no observed effect level
ISO	International Organization For Standardization
DIN	German Institute for Standardization

