

(according to EC directive 1907/2006)

Update : 04.02.2009

Version: 3.0 Date : 11.08.2009

TEGOAMIN BDE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name : TEGOAMIN BDE

Usage : Amine Catalyst for the Manufacturing of Polyurethane Foam

Information on : Evonik Goldschmidt GmbH

manufacturer/supplier Goldschmidtstr. 100

45127 Essen

Telephone: +4920117301 Telefax: +492011733000

Information provided by : Product Safety Goldschmidt

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Telefax: (+49) (0) 2 01/1 73-18 54

2. HAZARDS IDENTIFICATION

Corrosive

Risk advice to man and the environment

Harmful by inhalation, in contact with skin and if swallowed. Causes burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : Amine Mixture

Hazardous components

r					
Components	CAS-No.	EINECS	Symbol(s):	R-phrase(s)	Concentration [%]
Ethanamine, 2,2'-oxybis[N,N-	3033-62-3	221-220-5	C	20/21/22-34	70
dimethyl					

The full text of the R phrases is contained in section 16.

All existing information on exposure limits is contained in section 8.

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4. FIRST AID MEASURES

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After inhalation : Ensure supply of fresh air.

Take medical treatment.

After contact with skin : In case of contact with skin wash off immediately with soap and

water

Summon a doctor immediately.

After contact with eyes : In case of contact with eyes rinse thoroughly with plenty of water and

seek medical advice

After ingestion : Thoroughly clean the mouth with water

Do not induce vomiting. Summon a doctor immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.

Extinguishing media which must not be used for safety

reasons

not applicable

Special hazards from the substance itself, its

combustion products or from

its vapours

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

Special protective equipment

for firefighters

: Use self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.

Environmental precautions : Do not discharge into the subsoil/soil.

Do not allow to enter drains or waterways

Methods for cleaning

up/taking up

: Take up with absorbent material (eg sand, kieselguhr, universal

binder)

Dispose of absorbed material in accordance with the regulations.

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7. HANDLING AND STORAGE

Handling

Advice on safe handling : Ensure adequate ventilation.

Advice on protection against

fire and explosion

Vapours may form explosive mixtures with air Keep away from sources of ignition - no smoking Cool endangered containers by water spray

Storage

Further information : Keep container tightly closed

Protect from heat

German storage class : 8

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment

General protective measures : Avoid contact with eyes and skin

Do not inhale vapours

Hygiene measures : At work do not eat, drink, smoke or take drugs.

Remove soiled or soaked clothing immediately. Wash hands before breaks and after work.

Respiratory protection : in case of formation of vapours/aerosols:

Self-contained breathing apparatus

Hand protection : gloves made of nitril (NBR)

Eye protection : goggles, or face shield if necessary

have eye bath available.

Skin and body protection : Impermeable protective clothing

emergency eye wash fountains and safety showers shuold be

available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid Colour : yellow Odour : amine-like

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Melting temperature : $< -60 \, ^{\circ}\text{C}$

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Boiling temperature : 188 °C

at 1.013 hPa

Flash point : 74 °C

Method: ASTM D 93

Ignition temperature : not measured

Lower explosion limit : not measured

Upper explosion limit : not measured

Vapour pressure : not measured

Density : not measured

Water solubility : soluble

pH : not measured

Viscosity, dynamic : not measured

10. STABILITY AND REACTIVITY

Thermal decomposition : Not measured

Hazardous reactions : Reactions with acids.

Reactions with strong oxidizing agents.

Reactions with alkalies.

Hazardous decomposition

products

: None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 Species: rat

Dose: 570 - 609 mg/kg

Acute inhalation toxicity : LC50 Species: rat

Dose: 2,2 - 4,4 mg/l Exposure time: 4 h

Acute dermal toxicity : LD50 Species: rabbit

Dose: 400 - 2.000 mg/kg

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Skin irritation : Species: rabbit

corrosive

Eye irritation : Species: rabbit eye

corrosive

Sensitization : non-sensitizing

Remarks : Harmful by inhalation, in contact with skin and if swallowed.

Causes burns

With nitrites or nitrous acid nitrosamines may be formed under special conditions. These have been proven to be carcinogenic in

animal experiments.

12. ECOLOGICAL INFORMATION

Further ecological information

Remarks : The product is considered to be a water pollutant (German law).

Do not allow to enter soil, waterways or waste water canal.

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.: 86

Substance number: 2922

Description of the goods : 2922 CORROSIVE LIQUID, TOXIC, N.O.S.

Hazard release : bis(2-Dimethylaminoethyl)ether

Label : 8 corrosive substance, 6.1 toxic substance

RID:

Class : 8 Packaging group : II

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Orange plate : Hazard no.: 86

Substance number: 2922

Description of the goods : 2922 CORROSIVE LIQUID, TOXIC, N.O.S.

Hazard release : bis(2-Dimethylaminoethyl)ether

Label : 8 corrosive substance, 6.1 toxic substance

Inland navigation transport

ADNR:

Class : 8

Item : CT1

Description of the goods : 2922 CORROSIVE LIQUID, TOXIC, N.O.S.

Hazard release : bis(2-Dimethylaminoethyl)ether

Label : 8 corrosive

Sea transport

IMDG:

Class : 8

Packaging group : II UN-No: 2922

EmS: F-AS-B

Correct technical name : CORROSIVE LIQUID, TOXIC, N.O.S.

Hazard release : bis(2-Dimethylaminoethyl)ether

Label : 8 corrosive, 6.1 toxic

Air transport

ICAO/IATA:

Class : 8

Packaging group : II UN-No: 2922 Correct technical name : Corrosive liquid, toxic, n.o.s. Hazard release : bis(2-Dimethylaminoethyl)ether

Label : 8 Corrosive, 6.1 Toxic

15. REGULATORY INFORMATION

Labelling in accordance with : The product is classified and labelled in accordance with EC

GefStoffV/EC directives/German regulations on dangerous substances.

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Hazard symbol(s)

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Corrosive

Hazardous component(s) for

labelling

Version:

• Ethanamine, 2,2'-oxybis[N,N-dimethyl

EINECS-No.: 221-220-5

R-phrase(s) : 20/21/22 Harmful by inhalation, in contact with skin and

if swallowed.

34 Causes burns.

S-phrase(s) : 24/25 Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with

water and soap.

36/37/39 Wear suitable protective clothing, gloves and

eye/face protection.

In case of accident or if you feel unwell, seek

medical advice immediately (show the label

where possible).

National legislation / regulations

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

Observe local authority regulations corresponding to the german incident regulation

(StörfallV).

Water contaminating class : 2 (Classification acc. to German law)

KBwS-No.: 3.576

Risk classification according

to BetrSichV (Germany)

: ---

Other regulations : Special local regulations must be adhered to when using products

containing irritating or corrosive substances.

Special local regulations must be adhered if using harmful

substances.

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16. OTHER INFORMATION

3.0

none

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R-phrases of components from chapter 3 - Full wording

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

34 Causes burns.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Changes compared to the previous version are marked before the section number!

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