

Date of issue: 07.06.2017

Version: V 1

Revision Date: 07.06.2017

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Evolution A1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Amine component for Perma Evolution

1.3 Details of the supplier of the safety data sheet

Alfred Becht GmbH

Carl-Zeiss-Str. 16

D-77656 Offenburg

Tel.: +49 781 60 58 6-0

E-Mail: klug@becht-online.de

1.4 Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg +49 761 / 19240

(Emergency call outside of business hours)

Section 2: Hazards identification

2.1 Classification of the substance or mixture according Regulation (EC) No. 1272/2008

H314	Causes severe skin burns and eye damage, Cat. 1B
H315	Causes skin irritation, Cat. 2
H317	May cause an allergic skin reaction, Cat. 1
H319	Causes serious eye irritation, Cat. 2

2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms (CLP)



Signal word (CLP): **Danger**

Date of issue: 07.06.2017

Version: V 1

Revision Date: 07.06.2017

Gefahrenhinweise:

H314 Causes severe skin burns and eye damage, Cat. 1B
H315 Causes skin irritation, Cat. 2
H317 May cause an allergic skin reaction, Cat. 1
H319 Causes serious eye irritation, Cat. 2

2.3 Other hazards

None if used as intended

Section 3: Composition/information on ingredients

3.1 Substances

This substance is a mixture

3.2 Mixture

Name: Diethylentriamin, 2,2'-Iminodi(ethylamin)
EC-No.: 203-865-4 CAS-No. : 111-40-0 Index-No.: 612-058-00-X 5-10 %
Classification acc. to Regulation (EC) No. 1272/2008:
H302, H312, H314, H317
P405 + P102, P305 + P351 + P338, P313, P280, P281, P314, P101, P308 + P313, P310, P307 + P311,
P301 + P310, P309 + P311, P342 + P311

(Full text of statements: see section 16)

Section 4: First aid measures

4.1 Description of first aid measures

After inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

After skin contact

Immediately flush skin with plenty of water for at least 15 minutes. Change contaminated clothing and shoes. Get medical attention.

After eye contact

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open.
Get medical attention.

After ingestion

Call a physician. If swallowed rinse mouth with water only if the person is conscious.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable: Foam, Dry powder, sand, Water, Carbon dioxide
Unsuitable:

5.2 Special hazards arising from the substance or mixture

Toxic gases are produced during combustion

5.3 Advice for firefighters

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Date of issue: 07.06.2017

Version: V 1

Revision Date: 07.06.2017

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid skin and eye contact.

6.2 Environmental precautions

Do not discharge into the drains or waterways

6.3 Methods and material for containment and cleaning up

Absorb spill with liquid-binding material (e.g. sand, universal binder, saw dust)

6.4 Reference to other sections

Consider protective measures in sections 7, 8 and 13

Section 7: Handling and storage

7.1 Precautions for safe handling

Wash contaminated clothing before reuse. Wash thoroughly after use. Keep product away from food and drink. Avoid contact with skin, eyes and clothes. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store at room temperature. Avoid temperatures above 30 °C.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Not applicable

8.2 Exposure controls

Individual protective measures – personal protective equipment

Eye protection

Sealed safety goggles

Skin and body protection

Wear suitable protective clothing (long sleeve)

Hand protection

Chemically resistant protective gloves.

Environmental exposure controls

See Section 6 and 7

Date of issue: 07.06.2017

Version: V 1

Revision Date: 07.06.2017

Section 9: Physicalische and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	creamy
colour:	Bright yellow
odour:	Slightly like amine
pH:	7 – 9
relative density:	1,7 g/cm ³ at 20 °C
Solubility:	Water, lower alcohols
Flashpoint:	>100 °C

9.2 Others

N.a.

Section 10: Section and reactivity

10.1 Reactivity

N.a.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

N.a.

10.4 Conditions to avoid

Temperatures above 30°C

10.5 Incompatible materials

N.a.

10.6 Hazardous decompositions products

N.a.

Section 11: Toxicological information

11.1 Information on toxicological effects

acute toxicity
Diethylentriamin LD 50 (oral, rat): 1080 mg/kg
Eye or skin irritation
Skin sensitisation

Section 12: Ecological information

No data available

Date of issue: 07.06.2017

Version: V 1

Revision Date: 07.06.2017

Section 13: Disposal considerations

13.1 Waste treatment methods
Disposal according to official regulations.

Section 14: Transport information

14.1 UN number
2097

14.2 UN proper shipping name
ADR/RID
DIETHYLENTRIAMIN LÖSUNG.
Tunnelbeschränkungscode: E

IMDG-Code / ICAO-TI / IATA-DGR
DIETHYLENTRIAMINE, SOLUTION.

14.3 Transport hazard class(es)
Class 8

14.4 Packing group
II

14.5 Environmental hazards
Dangerous for the environment: no —
Marine Pollutant: no

14.6 Special precautions for user
N.a.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
N.a.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for
the substance or mixture

EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

Date of issue: 07.06.2017

Version: V 1

Revision Date: 07.06.2017

National regulations

No additional information available

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

Section 16: Other information

Data sources: Regulation (EC) No. 1907/200 and Regulation (EC) No. 1272/2008

Full text of H- and P-statements

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
P405 + P102	Store locked up. Keep out of reach of children.
P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P314	Get medical advice/attention if you feel unwell
P101	If medical advice is needed, have product container or label at hand.
P308 + P313	If exposed or concerned: Get medical advice/attention
P310	Immediately call a poison center/doctor/...
P307 + P311	If exposed: Call a poison center/doctor/...
P301 + P310	If swallowed: Immediately call a poison center/doctor/...
P309 + P311	If exposed of feeling unwell: Call a poison center/doctor/...
P342 + P311	If experiencing respiratory symptoms: Call a poison center/doctor/...

Further informationen

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.