

SAFETY DATA SHEET
according to 830/2015/EC, 28.05.2015

Date: 2015-05-06
Update: 2017-01-25



METAL EPOXY ADHESIVE

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name METAL EPOXY ADHESIVE – COMPONENT A
Article number E-143

identified uses Component A and Component B are designed for production of an adhesive which is used for bonding and filling holes and cracks in parts made of metals, their alloys and casts.

uses advised against -

1.2. Details of the supplier of the safety data sheet

Manufacturer NALMAT-Trzebinia
Marian Krzyworzeka
ul. Kościuszki 88
32-540 Trzebinia
tel. +48 32 612 10 10
fax. +48 32 612 10 66
www.technicqll.pl office@technicqll.pl
jakosc@technicqll.pl

1.4. Emergency telephone number:

+ 48 (032) 711 53 27 during normal office hours - Monday - Friday 6.00am - 2.00pm
112

2. Hazards identification

2.1. Classification of the substance or mixture

Human health hazards: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Environmental hazards: Toxic to aquatic life with long lasting effects

Physical and chemical hazards: -

2.2. Label elements

EUH205- Contains epoxy constituents. May produce an allergic reaction.
EUH208 – Contains epoxy resin (average molecular weight <700): No. EC: 500-033-5). May produce an allergic reaction.



WARNING

H315 – Causes skin irritation
H317 – May cause an allergic skin reaction
H319 – Causes serious eye irritation
H411 – Toxic to aquatic life with long lasting effects

P102 – Keep out of reach of children
P280- Wear protective gloves/protective clothing/eye protection/face protection

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P302+P352 – IF ON SKIN: Wash with soap and water
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P273 – Avoid release to the environment
P501 – Dispose of contents/container to a mine waste dump.

2.3. Other hazards

PBT - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.
vPvB - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.

3. Composition/information on ingredients

3.1. Substance: -

3.2. Mixtures

| Description | CAS | EC | REACH No | Content % | Classification |
|---|------------|-----------|-------------------------------|-----------|--|
| epoxy resin (average molecular weight <700) | 25068-38-6 | 500-033-5 | 01- 2119456619- 26-0013 | 60-90 | Eye Irrit.2, H319 Skin Irrit.2, H315 Skin Sens.1, H317 Aquatic Chronic 2 H411 |

4. First aid measures

4.1 Description of first aid measures

| | |
|--------------------|--|
| After eye contact | In case of contact, flush eyes immediately with plenty of water and seek medical attention. |
| After skin contact | Remove completely the glue with a dry cloth or a paper towel before washing with detergent and water. In case of skin irritation, seeks medical attention. |
| After inhalation | Fresh air and rest if symptoms persist seek medical attention. |
| After swallowing | Seek medical attention. |

4.2. Most important symptoms and effects, both acute and delayed

Not available

4.3. Indication of any immediate medical attention and special treatment needed

The decision of the method of further procedure should be made by a doctor after exact assessment of victim's conditions.

5. Firefighting measures

5.1. Extinguishing media

All available media: powder, foam, water fog, CO₂; (use highly sprayed water).

Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

CO₂, CO, nitrogen oxides and soot.

5.3. Advice for firefighters

Wear protective equipment. Wear self – contained breathing apparatus.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See point 8.

6.2. Environmental precautions:

Avoid the product will come into soil, ground water and sewage system.

6.3. Methods and material for containment and cleaning up:

In case of spilling wipe scrape or soak up in inert material (sand) and take up mechanically in suitable containers. Disposal in accordance with state and local regulations.

6.4. Reference to other sections

Information concerning safe holding – section / chapter 7.

Information concerning personal protective equipment - section / chapter 8.

Information concerning utilisation - section / chapter 13.

7. Handling and storage

7.1. Precautions for safe handling:

Work in accordance with the industrial safety and hygiene rules. Ensure a good ventilation in a work place. Avoid spillage. Store away from food. Protect from frost..

7.2. Conditions for safe storage, including any incompatibilities

Store in dry and closed containers between 5°C and 25°C in well ventilated rooms. Protect from moisture.

7.3. Specific end use(s)

Not available.

8. Exposure controls/personal protection

The personal protection media should meet the requirements of Directive of 89/686/EC (together with later changes) The employer is obliged to ensure measures of personal protection suitable to activities that are made and fulfilling all quality requirements as well as their cleaning and maintenance.

8.1. Control parameters

Ingredients with limit values that require monitoring at the work place.

| Exposure control | NDS [mg/m ³] | NDSCH [mg/m ³] |
|------------------|--------------------------|----------------------------|
| - | - | - |

8.2. Exposure controls

Observe the general rules of hygiene and safety. Ensure good ventilation in a work place. During work do not eat, drink and smoke tobacco. Wash hands before breaks and at the end of work. Avoid contacts with eyes.

Breathing equipment:

Work in well ventilated rooms.

Protection of hands and body:

Wear overalls.

Eye protection:

Wear safety glasses.

Environment exposure control

Do not allow the product to reach sewage system, ground water, water basins and soils..

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------------------|----------------------------------|
| Physical state | High viscosity liquid (adhesive) |
| Colour | grey |
| Specific gravity | 1,4 – 1,6 g/cm ³ |
| Boiling point | > 200°C |
| Flash point | >200°C |
| Self-ignition temperature | >500°C |
| Odour | Very weak |
| Solubility in water | insoluble |
| Solubility in ketones and esters | soluble |

9.2. Other information

Lack of additional tests.

10. Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

No dangerous products of decomposition, when stored and handled correctly.

10.3. Possibility of hazardous reactions

Reactions with strong acids and strong oxidizing agents.

10.4. Conditions to avoid

No decomposition if stored and used according to recommendations.

10.5. Incompatible materials

Not available.

10.6. Hazardous decomposition products

Do not occur if the material is stored properly. CO, CO₂, NO_x may be emitted in case of unsuitable storage

11. Toxicological information

11.1. Information on toxicological effects

| | |
|---|--|
| Skin contact | Repeated exposure may cause drying and cracking skin. Contamination of skin with the mixture may induce local rednesses, pain, itching, and degreasing which may bring skin to inflammable states. . . |
| Eyes contact | Irritating. Eye contamination induces redness, watering, redness of conjunctives. |
| Ingestion system | Harmful, may cause an injury to lungs, vomiting and nausea in case of swallowing. |
| Sensitization | May cause sensitization as a result of exposure by inhalation system and contacts with skin. |
| Acute toxicity-Component A: | |
| LD ₅₀ oral >20000 mg/kg (rat) | |
| LD ₅₀ dermal >4000 mg/kg (rat) | |
| May cause sensitization in particularly sensitive persons in contacts with skin.. | |

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12. Ecological information

12.1. Toxicity

Lack of additional tests.

12.2. Persistence and degradability

Lack of additional tests.

12.3. Bioaccumulative potential

Possesses potential to bioaccumulation.

12.4. Mobility in soil

Easily absorbed by soil

12.5. Results of PBT and vPvB assessment

PBT Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

vPvB Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

12.6. Other adverse effects

Not available.

For used resin;

LC50 fish: 2,4 mg/l

EC50 daphnia: 3,6 mg/l

13. Disposal considerations

13.1. Waste treatment methods

Both components are distributed in one package in very small amounts. One package contains no more than 100g each of them. Such small quantities are used up completely in accordance with their designation. Waste material is destroyed in accordance with state and local regulations.

Waste code:

08 04 09 Waste adhesives and sealants containing organic solvents or other dangerous substations.

15 01 10 Packaging containing residues of dangerous substations or contaminated with them.

EU Legal Instruments:

Directives of European Parliament and Counsel No.2006/12/EU and 94/62/EU, Directive 91/689/EEC and Council.

State Legal Instruments

14. Transport information

14.1. UN-Number: 3082

Land transport ADR/RID and GGVSEB 9, LQ=5 L
(international/state)

Sea transport IMDG/VSee: 9

Air transport ICAO – TI I IATA – DGR: 9

14.2. Proper shipping name

Dangerous for the environment, liquid, I.N.O

14.3. Transport hazard class(es)

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14.4. Packing group

III

14.5. Hazards to environment

Toxic to aquatic life with long lasting effects

14.6. Special precautions for user

While handling the cargo apply personal protection measure according to point 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not available.

15. Regulatory information

15.1. Legislation related to safety, health and environment protection specific for substance or mixture:

The regulation of European Parliament and Council (EC) no. 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH), for establishing the European Chemical Agency, changing the directive 1999/45/EC and cancelling the regulation of EEC) no.793/93 and the regulation of Committee(EC) no.1488/94, as well as the directive of council 76/769/EEC and the directives of Committee 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC,

The regulation of European Parliament and Council (EC) no.1272/2008 of 16 December 2008 concerning the classification, labelling and packing the substances and mixtures, changing and cancelling the directives 67/548/EEC and 1999/45/EC and changing the regulation (EC) no.1907/2006

The regulation of Committee (EC) no.790/2009 of 10 August 2009 adopting to the scientific and technological progress the regulation of European Parliament and Council (EC) no 1272/2008 of 16 December 2008 concerning the classification, labelling and packing the substances and mixtures

The regulation 453/2010/EU Council of 10.05.2010 changing the regulation no. 1907/2006/EU of European Parliament and Council concerning the registration, estimation, granting permissions and suitable limits in the range of chemicals (REACH)

The directive of European Parliament and Council no.2006/12/EC of 5 April 2006 concerning waste.

The directive of Council no. 91/689/EEC of 12 December 1991 concerning dangerous waste.

The directive of European Parliament and Council no 94/62/EU. of 20 December 1994 concerning packaging and packaging waste.

15.2. Estimation of chemical safety:

-

16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name METAL EPOXY ADHESIVE – KOMPONENT B
Article number E-143

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

identified uses Component A together with Component B are designed for production of an adhesive used for bonding and filling holes and cracks in parts made of metals, their alloys and casts.
uses advised against -

1.3. Details of the supplier of the safety data sheet

Manufacturer NALMAT-Trzebinia
Marian Krzyworzeka
ul. Kościuszki 88
32-540 Trzebinia
tel. +48 32 612 10 10
fax. +48 32 612 10 66
www.technicqll.pl office@technicqll.pl
jakosc@technicqll.pl

1.4. Emergency telephone number:

+ 48 (032) 711 53 27 during normal office hours - Monday - Friday 6.00am - 2.00pm
112

2. Hazards identification

2.1. Classification of the substance or mixture

Human health hazards: Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects.
Environmental hazards: -
Physical and chemical hazards: -

2.2. Label elements

EUH208 – Contains Triethylenetetramine (No. EC: 203-950-6) and 3-dimethylaminopropylamine (No. EC: 203-680-9). May produce an allergic reaction.



DANGER

H314 – Causes severe skin burns and eye damage.
H317 – May cause an allergic skin reaction.
H318 – Causes serious eye damage.
H341 – Suspected of causing genetic defects.

P102 – Keep out of reach of children
P280 – Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 – IF ON SKIN: Wash with soap and water

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P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P332+P313- If skin irritation occurs: Get medical advice/attention.
P501 – Dispose of contents/container to a mine waste dump.

2.3. Other hazards

PBT - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.
vPvB - lack of information concerning fulfilment of the criteria in accordance with annex XIII of Reach Directive.

3. Composition/information on ingredients

3.1. Substance: -

3.2. Mixtures

| Description | CAS | EC | REACH No | Content % | Classification |
|---|----------|-----------|-------------------------------|-----------|--|
| Triethylenetetramine | 112-24-3 | 203-950-6 | 01- 2119487919- 13-XXXX | <5 | Acute Tox.4, H312, Skin Corr. 1B, H314 Skin Sens.1, H317 Aquatic Chronic 3 , H412 [GHS07, GHS05 – Danger] |
| 3-dimethylaminopropylamine | 109-55-7 | 203-680-9 | 01- 2119486842- 27-XXX | <2,5 | Flam. Liq.3, H226, Acute Tox.4, H302, Skin Corr. 1B, H314, Skin Sens.1, H317 [GHS07, GHS05, GHS02 – Danger] |
| Benzyl alcohol | 100-51-6 | 202-859-9 | 01- 2119492630- 38-XXXX | <6 | Acute Tox.4, H302 Acute Tox.4, H332 [GHS07, – Warning] |
| 2,4,6- tris(dimethyloaminomethyl)- phenol | 90-72-2 | 202-013-9 | 01- 2119560597- 27 | <2,5 | Acute Tox.4, H302, Eye Irrit.2, H319 Skin Irrit.2, H315 [GHS07, –Warning] |
| Phenol | 108-95-2 | 203-632-7 | 01- 2119882293- 32-0000 | 0-1 | Muta.2, H341, Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 STOT RE. 2, H373 Skin Corr. 1B, H314, (Dla: c<3% : Eye Irrit. 2, H319, Skin Irrit. 2, H315 Muta. 2, H341) [GHS06, GHS05, GHS08 – Danger] |

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4. First aid measures

4.1 Description of first aid measures

| | |
|--------------------|---|
| After eye contact | In case of contact flush eyes immediately with plenty of water and seek medical attention. |
| After skin contact | Remove completely the glue with a dry cloth or a paper towel before washing with detergent and water. In case of skin irritation seeks medical attention. |
| After inhalation | Fresh air and rest if symptoms persist seek medical attention. |
| After swallowing | Drink two glasses of water. Do not provoke vomiting. Seek medical attention. |

4.2. Most important symptoms and effects, both acute and delayed

Not available

4.3. Indication of any immediate medical attention and special treatment needed

The decision of the method of further procedure should be made by a doctor after exact assessment of victim's conditions.

5. Firefighting measures

5.1. Extinguishing media

All available media: powder, foam, water fog, CO₂; (use highly sprayed water).
Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

CO₂, CO, nitrogen oxides and soot.

5.3. Advice for firefighters

Wear protective equipment. Wear self – contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See point 8.

6.2. Environmental precautions:

Avoid the product will come into soil, ground water and sewage system.

6.3. Methods and material for containment and cleaning up:

In case of spilling wipe scrape or soak up in inert material (sand) and take up mechanically in suitable containers. Disposal in accordance with state and local regulations.

6.4. Reference to other sections

Information concerning safe holding – section / chapter 7.
Information concerning personal protective equipment - section / chapter 8.
Information concerning utilisation - section / chapter 13.

7. Handling and storage

7.1. Precautions for safe handling:

Ensure good ventilation and keep in a dry work place. Avoid spilling. Keep away from food. Protect from frost.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry and closed containers between 5°C and 25°C in well ventilated rooms. Undertake measures against electrical discharges

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7.3. Specific end use(s)

Not available.

8. Exposure controls/personal protection

The personal protection media should meet the requirements of the Directive of 89/686/EC (together with later changes) The employer is obliged to ensure measures of personal protection suitable to activities that are made and fulfilling all quality requirements as well as their cleaning and maintenance.

8.1. Control parameters

Ingredients with limit values that require monitoring at the work place.

| Exposure control | NDS [mg/m ³] | NDSCH [mg/m ³] |
|----------------------|--------------------------|----------------------------|
| Benzyl alcohol | 240 | - |
| Triethylenetetramine | 1 | 3 |
| Phenol | 7,8 | 16 |

8.2. Exposure controls

Observe the general rules of hygiene and safety. Ensure good ventilation in a work place. During work do not eat, drink and smoke tobacco. Wash hands before breaks and at the end of work. Avoid contacts with eyes.

Breathing equipment:

Work in well ventilated rooms.

Protection of hands and body:

Wear overalls.

Eye protection:

Wear safety glasses.

Environment exposure control

Do not allow the product to reach sewage system, ground water, water basin and soil..

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------------------|---------------------------------|
| Physical state | High viscosity liquid(adhesive) |
| Colour | cream |
| Specific gravity | 1,6 – 1,8 g/cm ³ |
| Dynamic viscosity | 1000-2000 mPas |
| Boiling point | >96°C |
| Flash point | >200°C |
| Self- ignition temperature | >500°C |
| Odour | Typical for amines |
| Water solubility | Partly soluble |
| Solubility in ketones and esters | soluble |

9.2. Other information

Lack of additional tests.

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10. Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

The product is stable if it is suitably handled and stored..

10.3. Possibility of hazardous reactions

Reactions with oxidizers. Reactions with strong acids. Agents to avoid: peroxides, aldehydes,, ketones, .

10.4. Conditions to avoid

The component does not decompose if it is correctly handled and stored.

10.5. Incompatible materials

Not available.

10.6. Hazardous decomposition products

Do not occur if the material is stored properly. CO, CO₂, NO_x may be emitted in case of unsuitable storage

11. Toxicological information

11.1. Information on toxicological effects

May cause an allergy reaction in particularly sensitive persons.. The vapours of Component B may cause irritation to inhalation system and asthmatic reaction when they are breathed for a long time..

Acute toxicity- Component B :
LD₅₀ oral >50000 mg/kg (rat)
LD₅₀ dermal >1500 mg/kg (rat)

12. Ecological information

12.1. Toxicity

Component B
Dangerous to the environment because contains toxic amines. The product does not undergo biodegradation in biological treatment plants. Excessive amounts may cause the mass poisoning. May be toxic for fish in big concentrations. Do not allow the product to reach sewage system, ground water, water basins and soil. .

For used resin

LC₅₀ for fish: 2,4 mg/l
EC₅₀ for daphnia: 3,6 mg/l

12.2. Persistence and degradability

Lack of additional tests.

12.3. Bioaccumulative potential

Possesses potential to bioaccumulation.

12.4. Mobility in soil

Easily absorbed by soil

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12.5. Results of PBT and vPvB assessment

PBT Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

vPvB Lack of information concerning fulfilment of criteria in accordance with Annex XIII of Reach Directive.

12.6. Other adverse effects

Lack of additional tests.

13. Disposal considerations

13.1. Waste treatment methods

Both components are distributed in one package in very small amounts. One package contains no more than 100g each of them. Such small amounts are usually used up completely in accordance with their designation. Waste material is undergone destroying in accordance with the state and local regulations.

Observe the regulation of law of 27.04.2001r waste products (Journal of Law No. 62, section. 628) with later changes. Observe the regulation of law of 27.05. 2001r of packages and package waste. (Journal of Law 63, section. 638)

Waste code:

08 04 09 Waste adhesives and sealants containing organic solvents or other dangerous substations.

15 01 10 Packaging containing residues of dangerous substations or contaminated with them.

14. Transport information

14.1. UN-Number:

The product does not create any threat in transport. It is not subject to RID/ADR regulations. It can be transported in any means of transport in hermetically closed packages.

Land transport ADR/RID and GGVSEB -
(international/state)

Sea transport IMDG/VSee: -

Air transport ICAO – TI I IATA – DGR: -

14.2. Proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Hazards to environment

Avoid dump to the environment.

14.6. Special precautions for user

While handling the cargo use personal protection measures according to point 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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15. Regulatory information

15.1. Legislation related to safety, health and environment protection specific for substance or mixture:

The regulation of European Parliament and Council (EC) no. 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH), for establishing the European Chemical Agency, changing the directive 1999/45/EC and cancelling the regulation of EEC) no.793/93 and the regulation of Committee(EC) no.1488/94, as well as the directive of council 76/769/EEC and the directives of Committee 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC,
The regulation of European Parliament and Council (EC) no.1272/2008 of 16 December 2008 concerning the classification, labelling and packing the substances and mixtures, changing and cancelling the directives 67/548/EEC and 1999/45/EC and changing the regulation (EC) no.1907/2006
The regulation of Committee (EC) no.790/2009 of 10 August 2009 adopting to the scientific and technological progress the regulation of European Parliament and Council (EC) no 1272/2008 of 16 December 2008 concerning the classification, labelling and packing the substances and mixtures
The regulation 453/2010/EU Council of 10.05.2010 changing the regulation no. 1907/2006/EU of European Parliament and Council concerning the registration, estimation, granting permissions and suitable limits in the range of chemicals (REACH)
The directive of European Parliament and Council no.2006/12/EC of 5 April 2006 concerning waste.
The directive of Council no. 91/689/EEC of 12 December 1991 concerning dangerous waste.
The directive of European Parliament and Council no 94/62/EU. of 20 December 1994 concerning packaging and packaging waste.

15.2. Estimation of chemical safety:

-

16. Other information

Explanation of symbols in the 3 point of Safety Data Sheet:

H226 – Flammable liquid and vapour
H302 – Harmful if swallowed
H315 – Causes skin irritation
H319 – Causes serious eye irritation
H332 – Harmful if inhaled
H301 – Toxic if swallowed
H302 – Harmful if swallowed
H311 – Toxic in contact with skin
H312 – Harmful in contact with skin
H314 – Causes severe skin burns and eye damage
H317 – May cause an allergic skin reaction
H331 – Toxic if inhaled
H373 – May cause damage to organs through prolonged or repeated exposure
H341 – Suspected of causing genetic defects
H412- Harmful to aquatic life with long lasting effects

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MSDS developed by NALMAT Trzebinia

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