

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

Revision: 2011-05-06  
Update: 2017-02-17



**ALUMINUM EPOXY PASTE**

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

**1.1. Product identifier**

Trade name ALUMINUM EPOXY PASTE – COMPONENT A  
Article number E-020

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

identified uses Aluminium epoxy paste is designed for regeneration and bonding cracked engine blocks, oil sumps, coolers, damaged threads, fuel tanks, bearing seating, shafts, spline ways and so on.  
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](http://www.technicqll.pl) [office@technicqll.pl](mailto:office@technicqll.pl)  
[jakosc@technicqll.pl](mailto: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: H315 – Causes skin irritation  
H317 – May cause an allergic skin reaction  
H319 – 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 symbol:



**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

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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  
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 waste dump.

**2.3. Other hazards**

PBT - lack of information concerning fulfillment of the criteria in accordance with annex XIII of Reach Directive.  
vPvB - lack of information concerning fulfillment 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	70-80	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, CO<sub>2</sub>; (use highly sprayed water).  
Unsuitable extinguishing media: High volume water jet.

**5.2. Special hazards arising from the substance or mixture**

CO<sub>2</sub>, CO, nitrogen oxides and soot.

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**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 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. 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 <sup>3</sup> ]	NDSCH [mg/m <sup>3</sup> ]
-	-	-

**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.

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**Eye protection:**

Wear safety glasses.

**Environment exposure control**

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

**9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state	Thixotropic paste
Density	1,3 – 1,5 g/cm <sup>3</sup>
Colour	Silver
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
Dynamic viscosity at 25°C	-

**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 product is properly stored. In case of unsuitable storage CO, CO<sub>2</sub>, NO<sub>x</sub> may be emitted.

**11. Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity- Component A:  
Oral LD<sub>50</sub> >20000 mg/kg (rat)  
Dermal LD 50 >4000 mg/kg (rat)  
May cause allergy in persons particularly sensitive in contact 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**

Has potential to bioaccumulation.

**12.4. Mobility in soil**

May be easily absorbed in 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 for fish: 2,4 mg/l

EC50 for 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 Council 2006.12-ECI Council

**State Legal Instruments**

**14. Transport information**

**14.1. UN-Number: 3077**

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

Sea transport IMDG/VSee:9

Air transport ICAO – TI I IATA – DGR:9

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**14.2. Proper shipping name**

Material threatening the environment SOLID

**14.3. Transport hazard class(es)**

9

**14.4. Packing group**

III

**14.5. Hazards to environment**

Toxic to aquatic life with long lasting effects

**14.6. Special precautions for user**

During handling with load use personal protection according to point 8.

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

not applicable

**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:**

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**16. Other information**

No. in Register: Reg/1872/2002

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	<b>Aluminium EPOXY PASTE – COMPONENT B</b>
Article number	E-020

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

identified uses	Aluminium epoxy paste is designed for regeneration and bonding cracked engine blocks, oil sumps, coolers, damaged threads, fuel tanks, bearing seating, shafts, spline ways and so on.
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 <a href="http://www.technicqll.pl">www.technicqll.pl</a> <a href="mailto:office@technicqll.pl">office@technicqll.pl</a> <a href="mailto:jakosc@technicqll.pl">jakosc@technicqll.pl</a>
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**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:	H315 – Causes skin irritation H317 – May cause an allergic skin reaction H319 – Causes serious eye irritation H341 – Suspected of causing genetic defects
Environmental hazards:	
Physical and chemical hazards:	-

**2.2. Label elements**

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

H315 – Causes skin irritation  
H317 – May cause an allergic skin reaction  
H319 – Causes serious eye irritation  
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  
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove

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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	<2	Acute Tox.4, H312, Skin Corr.1B, H314, Skin Sens.1, H317, Aquatic Chronic 3, H412
3-dimethylaminopropylamine	109-55-7	203-680-9	01- 2119486842- 27-XXX	<2	Flam. Liq.3, H226, Acute Tox.4, H302, Skin Corr. 1B, H314, Skin Sens.1, H317
Phenol	108-95-2	203-632-7	01- 2119882293- 32-0000	1	Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 STOT RE. 2, H373 Skin Corr. 1B, H314, Muta. 2, H341 (Dla: c<3% : Eye Irrit. 2, H319, Skin Irrit. 2, H315 Muta. 2, H341)
Benzyl alcohol	100-51-6	202-859-9	01- 2119492630- 38-XXXX	<7	Acute Tox.4, H302 Acute Tox.4, H332
2, 4,6- tris(dimethylaminomethyl)- phenol	90-72-2	202-013-9	01- 2119560597- 27	<3	Acute Tox.4, H302, Eye Irrit.2, H319 Skin Irrit.2, H315

### 4. First aid measures

#### 4.1. Description of first aid measures

After eye contact  
After skin contact

In case of contact, flush eyes immediately with plenty of water and seek medical attention.  
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  
After swallowing

Fresh air and rest if symptoms persist seek medical attention.  
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



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**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, CO<sub>2</sub>; (use highly sprayed water).

Unsuitable extinguishing media: High volume water jet.

**5.2. Special hazards arising from the substance or mixture**

CO<sub>2</sub>, 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 handling – 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.

**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.

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**8.1. Control parameters**

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

Phenol	7,8	16
Triethylenetetramine	1	3
Benzyl alcohol	240	-

**8.2. Exposure controls**

**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 enter sewage system, water reservoirs, ground water and soil ..

**9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state	Thixotropic paste
Density	1,7 – 1,9 g/cm <sup>3</sup>
Colour	Dark grey
Boiling point	>135°C
Flash point	>76°C
Decomposition temperature	>150°C
Self-ignition	The product is not subject to self-ignition
Odour	Typical for amines
Solubility in water	Partly soluble
Solubility in ketones and esters	soluble
Dynamic viscosity at 25°C	-

**9.2. Other information**

Lack of additional tests.

**10. Stability and reactivity**

**10.1. Reactivity**

Not available.

**10.2. Chemical stability**

The product is stable if it is properly handled and stored

**10.3. Possibility of hazardous reactions**

Reactions with strong acids and strong oxidizing agents.

**10.4. Conditions to avoid**

Peroxides, acids, aldehydes, ketones.

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**10.5. Incompatible materials**

Not available.

**10.6. Hazardous decomposition products**

Do not occur if the material is stored properly. In case of unsuitable storage CO, CO<sub>2</sub>, NO<sub>x</sub> may be emitted.

**11. Toxicological information**

**11.1. Information on toxicological effects**

Irritating product. Irritating to eyes and skin. May cause allergy at persons particularly sensitive in contact with skin.

Acute toxicity- Component B:

Acute oral LD50: >50000 mg/kg (rat)

Acute dermal LD50: >1500 mg/kg (rat)

**12. Ecological information**

**12.1. Toxicity**

Component B:

Dangerous to environment because contains toxic amines. The product does not undergo biodegradation in biological sewage treatment plants. Excessive amounts of the product may cause poisoning biomass. In big concentrations may be toxic to fish. Do not allow the product to reach sewage system, ground water, water reservoirs and soil.

For used resin

LC50 fish: 2,4 mg/l

EC50 daphnia: 3,6 mg/l

**12.2. Persistence and degradability**

Lack of additional tests.

**12.3. Bioaccumulative potential**

Possesses potential to biodegradation.

**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**

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.

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Observe the regulation of law of 27.04.2001r waste products (Dz. U. Nr 62, pos. 628 ) with later changes. Observe the regulation of law of 27.05. 2001r of packages and package waste. ( Dz. U. Nr 63, pos. 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 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 release of the product to environment .

**14.6. Special precautions for user**

During handling with load use personal protection according to point 8.

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

**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 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.

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**15.2. Estimation of chemical safety:**

-

**16. Other information**

Explanation of symbols in the Safety Data Sheet:

H226 – Flammable liquid and vapour  
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  
H315 – Causes skin irritation  
H317 – May cause an allergic skin reaction  
H319 – Causes serious eye irritation  
H331 – Toxic if inhaled  
H332 – Harmful 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**