

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

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



**AUTOMOTIVE EPOXY PUTTY**

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

**1.1. Product identifier**

Trade name AUTOMOTIVE EPOXY PUTTY – COMPONENT A  
Article number E-136

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

identified uses Two component product used to removing, refilling all sorts losses and leakages in cars e. g leaks in oil sumps, coolers, tanks 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). 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 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
epoxide resin ( average molecular weight <700)	25068-38-6	500-033-5	01- 2119456619- 26-0013	<70	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:**

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

**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. 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 in 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.

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**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 soil.

**9. Physical and chemical properties**

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

physical state	Plastic mass	
Specific gravity	1,8 – 1,9 g/cm <sup>3</sup>	□
Boiling point	> 200°C	
Flash point	>200°C	
Self-ignition temperature	>500°C	
odour	Very weak	
Solubility in water	insoluble	
Solubility in esters and ketones	soluble	
Dynamic viscosity at 25°C	-	
colour	orange	

**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**

Avoid exposure to direct sunlight and humidity access.

**10.5. Incompatible materials**

Not available.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of unsuitable storage CO, CO<sub>2</sub>, NO<sub>x</sub> may be emitted .

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**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 <sub>50</sub> oral >20000 mg/kg (rat)	
LD <sub>50</sub> dermal >4000 mg/kg (rat)	
May cause sensitization in particularly sensitive persons in contacts with skin..	

**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:

<b>08 04 09</b>	Waste adhesives and sealants containing organic solvents or other dangerous substations.
<b>15 01 10</b>	Packaging containing residues of dangerous substations or contaminated with them.

**EU Legal Instruments**

Directives of European Parliament and Council 2006.12-ECI Council

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**State Legal Instruments**

Destroy in accordance with obligatory regulations in a range of waste utilisation..

**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

**14.2. Proper shipping name**

Solid material threatening the environment, i.n.o.

**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 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, labeling 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, labeling 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**

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.

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

**1.1. Product identifier**

Trade name AUTOMOTIVE EPOXY PUTTY – COMPONENT B  
Article number E-136

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

identified uses Two component product used to removing, refilling all sorts losses and leakages in cars e. g leaks in oil sumps, coolers, tanks 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  
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[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: Causes skin irritation. May cause an allergic skin re action. Causes serious eye damage. Suspected of causing genetic defects.

Environmental hazards: Harmful 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 (No. EC: 500-033-5) and Triethylenetetramine (No. EC: 203-950-6). May produce an allergic reaction.

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Warning symbol:



#### DANGER

H315 – Causes skin irritation  
H317 – May cause an allergic skin reaction  
H318 – Causes serious eye damage  
H341 – Suspected of causing genetic defects  
H412 – Harmful to aquatic life with long lasting effects

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 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	<3	Acute Tox.4, H312, Skin Corr.1B, H314, Skin Sens.1, H317, Aquatic Chronic 3, H412
Epoxy resin	25068-38-6	500-033-5	01-2119456619-26-0013	<5	Eye Irrit.2, H319 Skin Irrit.2, H315 Skin Sens.1, H317 Aquatic Chronic 2 H411 (For: c<5% - Skin Sens.1, H317, Aquatic Chronic3, H412)
Phenol	108-95-2	203-632-7	01-2119882293-32-0000	<2	Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 STOT RE. 2, H373 Skin Corr. 1B, H314, (For: c<3% : Eye Irrit. 2, H319, Skin Irrit. 2, H315 Muta. 2, H341)



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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, 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 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.

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**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.

**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> ]
Phenol	7,8	16
Triethylenetetramine	1	3

**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 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	Plastic mass
Specific gravity	2,0 – 2,1 g/cm <sup>3</sup>
Boiling point	>96°C
Flash point	>200°C
dour	Typical for amines
Solubility in water	Partly soluble
Solubility in esters and ketones	soluble
Colour	gray

**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**

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**

Peroxides, acids, aldehydes, ketones.

**10.5. Incompatible materials**

Not available.

**10.6. Hazardous decomposition products**

Under proper handling and storing they do not occur. : CO, CO<sub>2</sub>, NO<sub>x</sub>.

**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.

For epoxy resin:

LD<sub>50</sub> oral >50000 mg/kg (rat)

LD<sub>50</sub> dermal >23 500 mg/kg (rabbit)

**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.

**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.

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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 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 (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: 3077**

Land transport ADR/RID and GGVSEB (international/state)	9, LQ=5 kg
Sea transport IMDG/VSee:	9
Air transport ICAO – TI IATA – DGR:	9

**14.2. Proper shipping name**

Solid material threatening the environment, i.n.o.

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

9

**14.4. Packing group**

III

**14.5. Hazards to environment**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic 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**

Not available.

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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:

H301 – Toxic 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  
H373 – May cause damage to organs through prolonged or repeated exposure  
H341 – Suspected of causing genetic defects  
H411 – Toxic to aquatic life with long lasting effects  
H412 – Harmful to aquatic life with long lasting effects

No. Register: Reg/1872/2002

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**MSDS developed by NALMAT Trzebinia**