

UNI CLEAN, UNI CLEAN GT**Material Safety Data Sheet (MSDS)**

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Version: 1.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier: UNI CLEAN, UNI CLEAN GT**

1.2 Relevant identified uses of the substance or mixture and uses advised against: Preparation designed for degreasing surfaces and objects.

1.3 Details of the supplier of the safety data sheet:

TENZI Sp. z o.o., 72-002 Dołuje, Skarbimierzyce 20, e-mail: info@tenzi.pl, www.tenzi.pl, tel. +48 91 3119777, fax. +48 91 3119779 E-mail address for a competent person responsible for MSDS: technolog@tenzi.pl

1.4 Emergency telephone number: +48 91 31 19 777 (mon. - fri. 8am-4pm) or 112

SECTION 2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008**

Skin Irrit. 2 H315- Causes skin irritation.

Eye Dam. 1 H318- Causes serious eye damage

2.2. Label elements

According to 1272/2008/EC*

Hazard symbols



and signal words **DANGER**

Hazard statements:

H315- Causes skin irritation.

H318- Causes serious eye damage

Precautionary statements

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substances**

not applicable

3.2 Mixture

Composition (according to: 648/2004/EC): <2% Sodium Hydroxide, <5% Non-ionic and cationic surfactants, <5% Phosphates, <5% Phosphonates, fragrance composition; excipients

Product / ingredient name	Concentration [% weigh]	CAS / EC	Index-No.	REACH registration number	Classification
					Regulation (EC) No. 1272/2008 [CLP]
Phosphates	< 4	7320-34-5 230-785-7	---	---	Eye Irrit. 2 H319
Non-ionic surfactants	< 3,5	68439-54-3 polymer	---	---	Eye Dam. 1 H318, Acute Tox.4 H302
Cationic Surfactant	< 3	863679-20-3 ---	---	---	Acute Tox.4 H302, Skin Irrit. 2 H315, Eye Dam. 1 H318
Non-ionic surfactants	<2	---	---	01-21194901 00-53-0013	Skin Irrit. 2 H315, Eye Dam. 1 H318, Aquatic Chronic 2 H411
Phosphonates	< 1,2	2809-21-4 220-552-8	---	01-21195103 91-53-XXXX	Acute Tox. 4 H302, Met. Corr. 1 H290, Eye Dam. 1 H318, skin Irrit. 2 H315
Sodium Hydroxide	< 1,2	1310-73-2 215-185-5	011-002-00-6	01-21194578 92-27-XXXX	Skin Corr. 1A H314, Met. Corr. 1 H290

The full texts of phrases and H-symbols are in 16th section.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation– In case of inhalation poisoning symptoms (cough, dyspnea, dizziness) move to fresh air. Lay patient down in semi-recumbent posture. Keep warm and rested. Get medical attention.

Skin contact– If product comes in contact with the skin immediately remove all contaminated clothing and flush exposed area with large amounts of water. Consult a doctor in case burns or irritation occur.

Eye contact- Flush eyes with running water at least 15 minutes keeping eyelids open. Get medical attention

Ingestion- Wash out the mouth with water. Give a lot water to drink (1-2l). DO NOT induce vomiting. If victim is fully conscious, give a charcoal tablets. Contact a doctor and show this MSDS or label. Never give anything by mouth to an unconscious person.

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

Inhalation– Long-term exposures or un-well ventilated area may cause: upper respiratory tract irritation.

Skin – Causes skin irritation.

Eyes – Causes serious eye damage, chemical conjunctivitis and corneal damage (redness, intense pain), possible irreversible impairment of vision or blindness.

Ingestion – If swallowed, causes irritation of the mucous membrane.

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

Obtain medical attention. Self-contained eye wash or shower should be readily available.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: water, foam, dry extinguishing agent, carbon dioxide.

Extinguishing media which shall not be used for safety reason: DO NOT use a solid water stream.

5.2. Special hazards arising from the substance or mixture

Product is non-flammable.

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full protective clothing. In case of fire warn the people nearby. Evacuate unprotected and untrained personnel from hazard area. Notify relevant emergency services. If possible, remove the containers away from the influence of fire and high temperature. Water may be used to keep fire-exposed

containers cool until fire is out. The after burning residues should be removed.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: protective gloves, safety glasses

For emergency responders: self-contained breathing apparatus, protective clothes, protective gloves, safety glasses
Avoid skin and eyes contact. Provide proper ventilation.

6.2. Environmental precautions

Avoid discharge into drains, onto the ground water or surface water. Prevent from entering into soil.

6.3. Methods and material for containment and cleaning up

In case of unexpected release substance into environment inform on emergency, keep away from source of ignition. Prevent spills from entering sewers, surface water or groundwater. If it is possible confine and contain the spill by closing liquid flow, damage container put into protect leak proof wrapping. For large spill make a dike around the outside edges of the spill. Clean-up materials store for disposal as hazardous waste. Decontaminate polluted area with water. For small spill use absorbent materials (sand solid, sawdust, fines limestone) and store for disposal as hazardous waste. Decontaminate polluted area with water.

6.4. Reference to other sections

See section 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Please note that you need to be carefully while working with this product. Use personal protection recommended in section 8.
Mix only with water. DO NOT mix with other chemical substances.

People with skin allergy or respiratory system problems should not have contact with this product.

After usage keep container tightly closed. Keep away from unauthorized people.

Use only adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly close, original plastic container. Store this product in dry environment that will be maintained at temperature between 5°C - 35°C. Store in good ventilated area with easy clean alkali resistant floor. DO NOT expose to sunlight. Keep away from heat, sparks, flame and source of ignition.

7.3. Specific end use(s)

No data available

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters

Please check any national occupational exposure limit values in your country.

DNEL /PNEC values for substances (according to MSDS or Chemical Safety Report):

Phosphates (data for high concentrations substance):

not identified

Non-ionic surfactants (data for high concentrations substance):

No data available

Cationic Surfactant (data for high concentrations substance):

not identified

Non-ionic surfactants (data for high concentrations substance):

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 4,16 mg/kg bw/day, Group: Workers, Type of effect: systemic effect

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 0,09 mg/kg bw/day, Group: Workers, Type of effect: local effect

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 73,4 mg/m³, Group: Workers, Type of effect: systemic effect

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 21,7 mg/m³, Group: Consumers, Type of effect: systemic effect

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 2,5 mg/kg bw/day, Group: Consumers, Type of effect: systemic effect
DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 0,056 mg/kg bw/day, Group: Consumers, Type of effect: local effect
DNEL Exposure frequency: Long term, Exposure route: oral, Value: 6,25 mg/kg bw/day, Group: Consumers, Type of effect: systemic effect
PNEC Aqua (fresh water): 0,007 mg/l Extrapolation method: Assessment factor
PNEC Aqua (marine water): 0,0007 mg/l Extrapolation method: Assessment factor.
PNEC Sediment: 0,0424 mg/kg Extrapolation method: partition coefficient
PNEC Soil: 0,0189 mg/kg Extrapolation method: partition coefficient
PNEC Sewage treatment plant: 830 mg/l Extrapolation method: Assessment factor.
PNEC intermittent release: 0,024 mg/l Extrapolation method: Assessment factor
Phosphonates (data for high concentrations substance):
No data available
Sodium Hydroxide (data for high concentrations substance):
No data available

NOTE: When the concentration of substance is known, personal protective equipment should be chosen based on: substance concentration on a workplace, exposure time and operations performed by the employee. In emergency situations, if substance concentration on the workplace is unknown, personal protection of highest class level should be used.

8.2. Exposure controls

RESPIRATORY PROTECTION: In case of insufficient ventilation, wear suitable respiratory equipment - masks with gas and vapour protection

HAND PROTECTION: Alkaline-resistant gloves for example: DERMATRIL

EYE/FACE PROTECTION: Safety glasses, in case of contact with face wear face-shield.

SKIN PROTECTION: Protective clothing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

APPEARANCE/FORM: – pale yellow liquid
ODOUR – characteristic for this fragrance composition
ODOUR THRESHOLD - not identified
pH – 13±1
MELTING/FREEZING POINT: not identified
INITIAL BOILING POINT AND BOILING RANGE: not identified
FLASH POINT: not identified
EVAPORATION RATE: not identified
FLAMMABILITY (SOLID,GAS): not identified
UPPER/LOWER FLAMMABILITY (UEL/LEL): not identified
VAPOUR PRESSURE: not identified
VAPOUR DENSITY: not identified
RELATIVE DENSITY: 1,060±0,020 g/cm³
SOLUBILITY:
a) WATER – soluble
b) ORGANIC SOLVENT – not identified
PARTITION COEFFICIENT N-OCTANOL/WATER: – not identified
AUTO-IGNITION TEMPERATURE: not identified
DECOMPOSITION TEMPERATURE: not identified
VISCOSITY: not identified
EXPLOSIVE PROPERTIES: not identified
OXIDISING PROPERTIES: not identified

9.2. Other information

REFRACTIVE INDEX – 20,3% Brix* ± 5%

* - Degrees Brix is the content of an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percentage by weight (%w/w)

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable under recommended storage conditions (see point 7)

10.3 Possibility of hazardous reactions

May react violently with acids to release heat.

10.4 Conditions to avoid

Avoid storage unprotected from heat and not well-ventilated area. Avoid long-term expose to sunlight.

10.5 Incompatible materials

Avoid contact with acids and strong oxidizers.

10.6 Hazardous decomposition products

No data available

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****ACUTE TOXICITY:**

- **INHALATION:** Long-term exposures or un-well ventilated area may cause upper respiratory tract irritation

- **DIGESTIVE SYSTEM:** If swallowed, may cause irritation and burns of the mucous membrane

- **SKIN CONTACT :** Causes skin irritation.

- **EYE CONTACT:** Causes serious eye damage

ATEmix= 8904 (Acute toxicity, oral)

DETAILS OF PARTICULAR COMPONENTS (according to substances's MSDS):**Phosphates (data for high concentrations substance):**

LD50>2000 mg/kg (mouse, oral)

Non-ionic surfactants (data for high concentrations substance):

LD50>300 - 2000 mg/kg (rat, oral)

LD50> 2000 mg/kg (rat, skin)

Skin corrosion/irritation: Non-irritant for skin (rabbit)

Serious eye damage/eye irritation: irritant, risk of serious damage to eyes (rabbit)

Germ cell mutagenicity; Ames test: Non-mutagenic

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity (single exposure): No data available

Specific target organ toxicity (repeated exposure): No data available

Aspiration hazard: No data available

Cationic Surfactant (data for high concentrations substance):

Symptoms and effects of exposure:

-Eyes: may cause serious eye damage

-Skin: May cause skin irritation

-Ingestion: Harmful if swallowed, may cause irritation of the mucous membranes and throat

-Inhalation: Inhalation of vapors may cause irritation of the mucous membranes, throat and nose

LD 833mg/kg (oral)

LD50:> 300-2000 mg /kg (rat, oral)

Sensitisation and mutagenicity effects were not observed (based on results Ames test)

Non-ionic surfactants (data for high concentrations substance):

LD50 > 5000 mg/kg (rat, male, female, oral)

LD50 > 2000 mg/kg (rabbit, male, female, skin)

-skin: irritant for skin (OECD 404 rabbit)

- eye: severe irritant (OECD 405 rabbit)

- inhalation: nonirritant

Respiratory or skin sensitisation: Not sensitising (Guinea pig, skin)

Germ cell mutagenicity: negative (OECD 471, OECD 474)

Carcinogenicity: negative (skin, rat, 2 years- 5 days a week)

Reproductive toxicity: NOAEL > 750 mg/kg (rat, oral) OECD 407

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Teratogenicity: NOAEL 1000 mg/kg (rat) OECD 414
Chronic health effects: NOAEL >750 mg/kg/d OECD 407
Phosphonates (data for high concentrations substance):
LD50: 1800 mg/kg (mouse, oral)
LD50: 3000 mg/kg (rat, inhalation)
Skin corrosion/irritation: classified as irritating to skin (Skin irrit.2)
Serious eye damage/eye irritation: classified as causing serious damage to eyes
Respiratory or skin sensitisation: The product does not meet criteria for classification.
Germ cell mutagenicity: Not classified.
Carcinogenicity: Not classified.
Reproductive toxicity: not classified.
Specific target organ toxicity (single exposure): not classified.
Specific target organ toxicity (repeated exposure): not classified.
Aspiration hazard: not classified.
Sodium hydroxide (data for high concentrations substance):
LD50 500 mg/kg (rat, oral)
Toxic if swallowed. Ingestion cause burns and damage to the mouth and esophagus. Risk of perforation in the esophagus and stomach, shock or collapse.
Acute toxicity (inhalation): no data available. May cause irritation and burns of mucous membranes.
Acute toxicity (dermal): no data available
Acute toxicity (other): no data available
Skin corrosion/irritation: Corrosive, may cause severe burns. May cause deep, penetrating ulcers of the skin and skin necrosis.
Serious eye damage/eye irritation: irreversible burns, necrosis corneal, risk of blindness.
Respiratory or skin sensitisation: Not sensitising
Germ cell mutagenicity: No adverse effects were observed.
Carcinogenicity: No adverse effects were observed.
Reproductive toxicity: No data available
Specific target organ toxicity (single exposure): No data available
Specific target organ toxicity (repeated exposure): No data available
Aspiration hazard: Corrosive to the respiratory tract

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity****DETAILS OF PARTICULAR COMPONENTS:****Phosphates (data for high concentrations substance):**

LC0 750 mg/l/48h

Non-ionic surfactants (data for high concentrations substance):

LC50 > 1-10 mg/l/96h (OECD 203) (Cyprinus carpio)

EC50 > 1-10 mg/l/48h (OECD 202) (Daphnia magna)

EC50 > 1-10 mg/l/72h (OECD 201) (Scenedesmus subspicatus)

Cationic Surfactant (data for high concentrations substance):

- for fish: LC50: >10 – 100 mg/l/96h

- for Daphnia: EC50: >1 – 10 mg/l/48h

- for algae : EC50: > 1 – 10 mg/l/72h

Readily Biodegradable > 60% BOD/28 d (per OECD 301D, Closed Bottle Test)

Non-ionic surfactants (data for high concentrations substance):

-for bacteria: EC50 6000 mg/l/16h

- for Daphnia: EC50 3,2 mg/l/48h,

- for Algae: ErC50 18,6 mg/l/72h,

- for fish: LC50 2,4 mg/l/96h,

- for algae: NOEC 2 mg/l/72h,

- for Daphnia: NOEC 0,07 mg/l/21d,

- for fish NOEC 0,32 mg/l/28d.

Phosphonates (data for high concentrations substance):

- for Daphnia: EC50: 292 mg/l/48h

- for fish: LC50: 350 mg/l/96h

Sodium hydroxide (data for high concentrations substance):

Toxic to fish and aquatic invertebrates and may adversely affect non-target plants.

- for fish: LC0 157 mg/l/48h, LC50 189 mg/l/48h, LC100 213 mg/l/48h

12.2 Persistence and degradability:

The surfactants contained within the product comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents

DETAILS OF PARTICULAR COMPONENTS:

Phosphates (data for high concentrations substance):

No data available

Non-ionic surfactants (data for high concentrations substance):

Readily Biodegradable.

Degree of elimination: >70% after 28 days, according to OECD 301A

Degree of elimination: >60% after 28 days, according to OECD 301B

Cationic Surfactant (data for high concentrations substance):

Readily Biodegradable. > 60% BOD/28 d (acc.to OECD 301D, Closed Bottle Test)

Non-ionic surfactants (data for high concentrations substance):

Readily Biodegradable:>92,5% BOD/28 d (acc.to OECD 301D, Closed Bottle Test)

Phosphonates (data for high concentrations substance):

No data available

Sodium hydroxide (data for high concentrations substance):

Readily Biodegradable in water and in air. Substance rapidly dissolves and subsequently dissociates in water. Sodium hydroxide is converted into carbonates.

12.3 Bioaccumulative potential:

Phosphates (data for high concentrations substance):

No data available

Non-ionic surfactants (data for high concentrations substance):

No data available

Cationic Surfactant (data for high concentrations substance):

Readily Biodegradable

Non-ionic surfactants (data for high concentrations substance):

Low potential for bioaccumulation:logPow: 3,75, BCF:65,36

Phosphonates (data for high concentrations substance):

No data available

Sodium hydroxide (data for high concentrations substance):

No data available

12.4 Mobility in soil

The product is water soluble and may spread in groundwater systems.

12.5 Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT and vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

RESIDUES AND WASTES

DO NOT mix with other liquid wastes. DO NOT empty into drain. Dispose of this material and its container at hazardous or special waste collection point.

13.1. WASTE TREATMENT METHODS

Contaminated containers should be completely emptied. Several times rise container (or equivalent) promptly after emptying. Empty container can be stored in containers for collection of plastic packaging, or can be delivered to specialized company for recycling.

Disposal should be in accordance with the national/international regulations.

SECTION 14. TRANSPORT INFORMATION

Trade name: UNI CLEAN, UNI CLEAN GT

14.1. UN Number: Not applicable

- 14.2. UN proper shipping name:** Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable
14.5. Environmental hazards: Product is not dangerous for environment
14.6. Special precautions for user: For more details see Sections 6 and 8
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: no data available

Warning label: Not applicable

SECTION 15. REGULATORY INFORMATION

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

- 1) COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 2) REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents
- 3) COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto
- 4) REGULATION (EC) No 1336/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending Regulation (EC) No 648/2004 in order to adapt it to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- 5) COMMISSION REGULATION (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)
- 6) REGULATION (EU) No 259/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 14 March 2012 amending Regulation (EC) No 648/2004 as regards the use of phosphates and other phosphorus compounds in consumer laundry detergents and consumer automatic dishwasher detergents
- 7) REGULATION (EC) No 273/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 February 2004 on drug precursors)
- 8) REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

15.2. Chemical safety assessment

For mixture: A Chemical Safety Assessment has not been carried out.

For substance:

Phosphates: Substance pre-registered with a transitional period

Non-ionic surfactants: No data available

Cationic surfactant: A Chemical Safety Assessment has not been carried out.

Non-ionic surfactants: A Chemical Safety Assessment has been carried out.

Phosphonates: A Chemical Safety Assessment has not been carried out.

Sodium hydroxide: A Chemical Safety Assessment has been carried out.

SECTION 16. OTHER INFORMATION

Information above are based on current knowledge of product on its current form. All data are presented in order to take into account safety requirements priority and not to guarantee special properties of the product. If product usage conditions are not under manufacturer control, responsibility for safe use lies with the person that uses them.

The employer is obliged to inform all employees, who have contact with the product, about the risk and safety measures specified in the data sheet.

Safety data presented above were prepared based on safety characteristics of substances used by the producer to compose the product and based on regulations for handling dangerous substances and their preparation.

Classification of chemical mixture was done with calculation methods, based on the content of hazardous ingredients.

The full list of phrases and H symbols from Section 2 and 3:

Skin Irrit. 2 - Causes skin irritation, category 2

Eye Dam. 1- Serious eye damage, category 1

Eye Irrit. 2 - Causes serious eye irritation, category 2

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Acute Tox. 4- Acute toxicity, category 4

Aquatic Chronic 2 - Hazardous to the aquatic environment, Chronic category 2

Met.Corr 1- Substance/Mixture is corrosive to metals, category 1

Skin Corr. 1A- Corrosive to skin, category 1A

H290 – May be corrosive to metals.

H302 – Harmful if swallowed.

H314 – Causes severe skin burns and eye damage.

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H319 – Causes serious eye irritation.

H411 – Toxic to aquatic life with long lasting effects.

More information on the product can be found on the specific technical data sheet which is available on www.tenzi.pl.

Training: Course participants should be trained about how to handle this hazardous substance, about safety and work hygiene. Drivers should also be trained and obtain proper certification in accordance with the ADR requirements.

UNI CLEAN, UNI CLEAN GT was submitted to Inspector for Chemical Substances.

Expiry date: 36 months from the production date (if product is stored according to the producent recommendations)

The product has PZH certificate.

Changes compared to the previous version:

-general update. Updated cards versions are now available on www.tenzi.pl

This Material Safety Data Sheet contains 9 pages. Changes in the content by unauthorized persons is prohibited.

Skarbimierzyce 01.06.2015