

ALUX STRONG EXTRA**Material Safety Data Sheet (MSDS)**

Creation Date 18.05.2012
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Version: 1.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier: ALUX STRONG EXTRA**

1.2 Relevant identified uses of the substance or mixture and uses advised against: Acidic highly concentrated product to periodically washing strongly contaminated elements of aluminum, light metals. The product is recommended for washing and cleaning the sides of trucks and aluminum wheels (with the exception of painted and chromed).

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 Corr. 1B H314 – Causes severe skin burns and eye damage.

Eye Dam. 1 H318 – Causes serious eye damage

Acute Tox. 3 H301 – Toxic if swallowed.

Acute Tox. 2 H310 – Fatal in contact with skin.

Acute Tox. 3 H331 – Toxic if inhaled.

Met. Corr. 1 H290 – May be corrosive to metals.

2.2. Label elements**According to 1272/2008/EC***

Hazard symbols:



and signal words: **DANGER**

Hazard statements:

H301 + H331 – Toxic if swallowed or if inhaled.

H310 – Fatal in contact with skin.

H314 – Causes severe skin burns and eye damage.

H290 – May be corrosive to metals.

Precautionary statements

P270 – Do not eat, drink or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

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

P301 + P330 + P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

P405 – Store locked up.

2.3. Other hazards

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

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixture

Composition (according to: 648/2004/EC): <5% hydrofluoric acid, <20% phosphoric acid, <7% hydrochloric acid, <5% anionic surfactants, excipients not classified as dangerous

Product / ingredient name	Concentration [% weigh]	CAS / EC	Index-No.	REACH registration number	Classification
					Regulation (EC) No. 1272/2008 [CLP]
Phosphoric acid (75%)	< 20	7664-38-2 231-633-2	015-011-00-6	01-21194859 24-24-XXXX	Skin Corr. 1B H314, Met. Corr. 1 H290,
Hydrochloric acid (30%)	< 7	--- 231-595-7	017-002-01-X	01-21194848 62-27-XXXX	Met. Corr. 1 H290, Skin Corr. 1B H314, STOT SE 3 H335
Hydrofluoric acid (70%)	< 5	7664-39-3 231-634-8	009-003-00-1	01-21194588 60-33-XXXX	Acute Tox. 2 H330, Acute Tox. 1 H310, Acute Tox. 2 H300, Skin Corr. 1 A H314
Anionic surfactants	< 0,16	68891-38-3 500-234-8	---	01-21194886 39-16-XXXX	Skin Irrit. 2 H315, Eye Dam. 1 H318, Aquatic Chronic 3 H412

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, physical activity may cause pulmonary edema. 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. Do not use neutralizing (alkali) agents. Apply calcium gluconate gel every 15 minutes and massage continuously until the pain disappears. An alternate procedure is to soak the affected areas in a 10% water solution of calcium gluconate. Get medical attention.

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

Ingestion– DO NOT induce vomiting (risk of perforation in stomach). Immediately give to drink plenty of water, add calcium (in the form of calcium gluconate or calcium lactate). If diarrhoea occurs: give solution of sodium sulfate (1 tablespoon with 1/4 l water). Immediately get medical attention. Never give anything by mouth to an unconscious person.

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

Inhalation – Toxic if inhaled.

Skin – Causes severe skin burns, fatal in contact with skin.

Eyes – Causes serious eye damage.

Ingestion – Toxic if swallowed. Cause burning in mouth and throat.

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

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5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

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. In case of fire can release hydrogen fluoride or hydrofluoric acid.

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. 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: self-contained breathing apparatus, chemical resistant gloves thickness of 0.11 mm, safety glasses/goggles

For emergency responders: self-contained breathing apparatus, protective clothes, chemical resistant gloves thickness of 0.11 mm, safety glasses/goggles

Avoid skin and eyes contact. Provide proper ventilation.

6.2. Environmental precautions

No data available.

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.

Avoid risk – read this instruction sheet carefully before using.

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):

Phosphoric acid (data for high concentrations substance):

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No data available.

Hydrochloric acid (data for high concentrations substance):

DNEL Exposure frequency: short term, Exposure route: inhalation, Value: 15 mg/m³, Group: workers Type of effect: local effect

DNEL Exposure frequency: long term, Exposure route: inhalation, Value: 8 mg/m³, Group: workers Type of effect: local effect

PNEC Aqua (fresh water): 0,036 mg/l

PNEC Aqua (marine water): 0,036 mg/l

PNEC (intermittent releases): 0,045 mg/l

PNEC Sediment (freshwater): is not expected exposure to the solid

PNEC Sediment (marine water): is not expected exposure to the solid

PNEC Soil: 0,036 mg/kg

Hydrofluoric acid (data for high concentrations substance):

DNEL, PNEC: no data available

Anionic surfactants (data for high concentrations substance):

DNEL Exposure frequency: long term, Exposure route: dermal, Value: 2750 mg/kg bw, Group: orkers Type of effect: systemic effect

DNEL Exposure frequency: long term, Exposure route: inhalation, Value: 175 mg/m³, Group: workers Type of effect: local effect

DNEL Exposure frequency: long term, Exposure route: dermal, Value: 1650 mg/kg bw mg/kg bw/day, Group: general population/consumers Type of effect: systemic effect

DNEL Exposure frequency: long term, Exposure route: inhalation, Value: 52 mg/m³, Group: general population/consumers, Type of effect: systemic effect

DNEL Exposure frequency: long term, Exposure route: oral, Value: 15 mg/m³, Group: general population/consumers, Type of effect: systemic effect

PNEC Aqua (fresh water): 0,24 mg/l

PNEC Aqua (marine water): 0,024 mg/l

PNEC Sediment (freshwater): 5.45 mg/kg

PNEC Sediment (marine water): 0,545 mg/kg

PNEC Sewage treatment plant: 10 mg/l

PNEC Soil: 0,946 mg/kg

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: wear suitable respiratory equipment - masks with gas and vapour protection (particle filter P2 filter pairs B) or breathing apparatus

HAND PROTECTION:

full contact: gloves of Butyl rubber gauge=0,7 mm, penetration time (maximum wearing period): 480min (acc. to PN-EN 374-3:1999)

spray contact: gloves of polyhloroprene rubber gauge = 0,65 mm, penetration time (maximum wearing period): 240 min. (acc. to PN-EN 374-3:1999)

EYE/FACE PROTECTION: tightly sealed safety glasses. Self-contained eye wash or shower should be readily available.

SKIN PROTECTION: full protective suit, rubber apron and rubber boots.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

APPEARANCE/FORM: transparent liquid

ODOUR: characteristic for this composition - acrid, pungent

ODOUR THRESHOLD: not identified

pH - 1±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

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VAPOUR DENSITY: not identified
RELATIVE DENSITY: 1,100±0,020g/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

Other information

REFRACTIVE INDEX – not identified 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

Reacts with metals to produce hydrogen gas, which can form an explosive mixture with air. Violent reactions possible with high concentrated: chlorosulphuric acid and sulphuric acid.

10.4 Conditions to avoid

Avoid storage unprotected from heat. Avoid long-term expose to sunlight.

10.5 Incompatible materials

Avoid contact with: glass, enamel/glaze, metals

10.6 Hazardous decomposition products

Hydrogen fluoride, phosphorus oxides, phosphine

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

- **INHALATION:** toxic if inhaled. Severely corrosive to the respiratory system. May cause throat pain, cough, breathing difficulties, pneumonia/embolism pulmonary and possible death.

-**DIGESTIVE SYSTEM:** toxic if swallowed. Cause severe burning in mouth and throat.

- **SKIN CONTACT:** causes severe burns. Fatal in contact with skin.

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

ATEmix = 10 (Acute toxicity, inhalation)

ATEmix = 100 (Acute toxicity, skin)

ATEmix = 100 (Acute toxicity, oral)

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

LD50 (oral, rat): 1530 mg/kg

LD 50 (rabbit, skin): 2740 mg/kg

Skin corrosion/irritation: extremely corrosive, destroys tissue, causes burns

Serious eye damage/eye irritation: may cause irreversible eye damage.

Specific target organ toxicity (single exposure): causes burns of the upper respiratory tract.

Specific target organ toxicity (repeated exposure): cause inflammation of the skin, chronic inflammation of the upper respiratory tract.

Hydrochloric acid (data for high concentrations substance):

LD50 238-277 mg/kg (rat, oral)

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LD50 > 5010 mg/kg (rabbit, skin)
LC50 - 4701 pp./0,5h (rat, inhalation)
Toxic if ingested, formed burns and damage to the mouth, esophagus and gastrointestinal tract, the risk of perforation of the esophagus and stomach.
Skin corrosion/irritation: corrosive, causes burns
Serious eye damage/eye irritation: causes irreversible burns, risk of permanent blindness.
Respiratory or skin sensitization: not sensitizing
Germ cell mutagenicity: no mutagenic
Carcinogenicity: not carcinogenic effects
Aspiration hazard: corrosive to the respiratory system.
Hydrofluoric acid (data for high concentrations substance):
Acute toxicity (inhalation): LCL0- 41,5 mg/m³ (human); LC50 - 1059 mg/m³/1h (rat); LC50 - 3591 mg/m³/15 min. (guinea pig).
Skin corrosion/irritation: corrosive (both liquid and gas), cause severe skin and mucous membranes burns.
Serious eye damage/eye irritation: may cause irreversible eye damage
Germ cell mutagenicity: long term exposure causes bone disease- fluorosis.
Aspiration hazard: high concentrations may produce pulmonary edema.
If skin is not treated promptly and well then permanent scarring can occur.
Anionic surfactants (data for high concentrations substance):
LD50 > 2000 mg/kg (rat, oral).
LD50 > 2000 mg/kg (rat, skin)
Skin corrosion/irritation: Irritant for skin
Serious eye damage/eye irritation: Causes serious eye damage
Respiratory or skin sensitization: No sensitizing effect known.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity****Phosphoric acid (data for high concentrations substance):**

-for fish: LC50 Gumbusia affinis: 138 mg/l/96h, LC 50 Lepomis macrochirus 3 - 3,25 mg/l/96h

-for Daphnia: EC50 Daphnia magna: >100 mg/l/48h.

Harmful to aquatic life. The hazardous effect depends on the pH of the aqueous solution.

Do not allow the substance penetrate into the sewage system, surface water, groundwater and soil.

Hydrochloric acid (data for high concentrations substance):

In aqueous hydrogen chloride effect it is dependent on pH as the water completely dissociates into ions, thereby not causing adverse effects. The substance in this form does not have the properties of sediment deposition.

Ecotoxicity

-for fish: LC50 20.5 mg / l / 96h (pH 3.25 - 3.5)

-for daphnia: EC50 / LC50 0.45 mg / l / 4l

-for algae: EC50 0.76 mg / l / 72h (pH 4.7), NOEC 0.364 mg / l // 72h (pH 5.0, according to the OECD 201); EC50 / LC50 0.73 mg / l (algae, fresh water)

Hydrofluoric acid (data for high concentrations substance):

Toxic for fish and aquatic organisms. Harmful to plants, causing significant damage in the stand and among the crops, and consequently - a disease in animals. Fruit trees and conifers are particularly sensitive. Harmful effect due to changing pH, toxicity for fish: 40-60 mg/l

Anionic surfactants (data for high concentrations substance):

LC50 > 1-10 mg/l Fish (OECD 203)

NOEC 1,2 mg/l Fish (literature data)

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

NOEC > 0,1-1,0 mg/l/21d Daphnia (OECD 211)

EC50 > 10-100 mg/l/72h (OECD 201) Algae

EC10 > 10000 mg/l Bacteria

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.

Phosphoric acid (data for high concentrations substance):

Inorganic substance, therefore biodegradation testing is not applicable.

Hydrochloric acid (data for high concentrations substance):

Readily biodegradable in water and in air.

In the water completely dissociates into ions.

Hydrofluoric acid (data for high concentrations substance):

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Biodegradability: does not apply to inorganic compounds

Anionic surfactants (data for high concentrations substance):

Biodegradation > 70% after 28 days (OECD 301A)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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: ALUX STRONG EXTRA

14.1. UN Number: 2922

14.2. UN proper shipping name: CORROSIVE LIQUIDS, TOXIC , N.O.S. (Hydrofluoric acid)

14.3. Transport hazard class(es): ADR class. 8

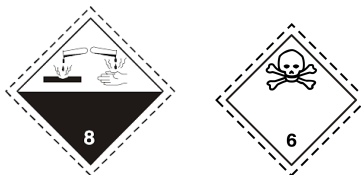
14.4. Packing group: III

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:

**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

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- 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:

Phosphoric acid: A Chemical Safety Assessment has been carried out.

Hydrochloric acid: A Chemical Safety Assessment has been carried out.

Hydrofluoric acid: A Chemical Safety Assessment has been carried out.

Anionic surfactants: 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:

Acute Tox. 3- Acute toxicity, category 3

Acute Tox. 2- Acute toxicity, category 2

Acute Tox. 1- Acute toxicity, category 1

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

Eye Dam. 1- Serious eye damage, category 1

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

STOT SE 3 - Specific target organ toxicity - Single exposure STOT, Category 3.

Skin Irrit. 2 - Causes skin irritation, category 2

Aquatic Chronic 3 - Hazardous to the aquatic environment - Chronic Hazard, Category 3

H290 – May be corrosive to metals.

H300 – Fatal if swallowed.

H301 – Toxic if swallowed.

H310 – Fatal in contact with skin.

H315 – Causes skin irritation.

H331 – Toxic if inhaled.

H314 – Causes severe skin burns and eye damage.

H318 – Causes serious eye damage.

H335 – May cause respiratory irritation.

H412 – Harmful 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.

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

ALUX STRONG EXTRA was submitted to Inspector for Chemical Substances.

Changes compared to the previous version:

-section 6.1 - thickness of gloves. 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 18.09.2015