TENZI Sp. z o.o.
SKARBIMIERZYCE 20
72-002 DOŁUJE

MOSQUITOS

Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: MOSQUITOS

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Product designed for removing insect traces and other dirt of organic origin from windows and car bodies.

1.3 Details of the supplier of the safety data sheet:

TENZI Sp. z o.o.
Skarbimierzyce 20
72-002 Dołuje
tel. +48 91 3119777
fax. +48 91 3119779
E-mail address for a competent person responsible for SDS: 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. 1A H314 – Causes severe skin burns and eye damage.
Eye Dam. 1 H318 – Causes serious eye damage.
STOT SE 3 H335 – May cause respiratory irritation.

2.2. Label elements:
(According to 1272/2008/EC*)

Hazard symbols:

Signal words:
DANGER

Hazard statements:
H314 – Causes severe skin burns and eye damage.
H335 – May cause respiratory irritation.

Precautionary statements:
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): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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/doctor
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.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances:
Not applicable.

3.2. Mixtures:
Composition (according to: 648/2004/EC):

- < 1% sodium hydroxide
- 5-15% anionic surfactants
- < 5% cationic surfactants
- auxiliary substances not classified as dangerous

Identification	Hazardous ingredient/classification	Concentration
CAS: 141-43-5 WE: 205-483-3 Index: 603-030-00-8 Registration: 01-2119486455-28-XXXX	**2-hydroxy-ethylamine** Acute Tox. 4 H302, Acute Tox. 4 H332, Acute Tox. 4 H312, Skin Corr. 1B H314, STOT SE 3 H335	< 9%
CAS: 15763-76-5 WE: 239-854-6 Index: No data available Registration: 01-2119489411-37-XXXX	**Sodium cumenesulphonate** Eye Irrit. 2 H319	< 6%
CAS: 1310-73-2 WE: 215-185-5 Index: 011-002-00-6 Registration: 01-2119457892-27-XXXX	**Sodium hydroxide** Skin Corr. 1A H314, Met. Corr. 1 H290	< 1%

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

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures:

Inhalation:
In case of inhalation poisoning symptoms (cough, dyspnea, dizziness) move the injured to fresh air.
Lay him down in semi-recumbent posture and make sure to keep him calm and warm. 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. In case of skin changes or burns, get medical attention.

Eye contact:
Flush eyes with running water (at least 15 minutes) while keeping eyelids open. Get medical attention.

Ingestion:
Do not induce vomiting. Get lots of water to drink. Do not take any neutralizing agents.
Get medical attention and show them this SDS or product's label.

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

Inhalation:
In case of long-time exposure and without proper ventilation system, it may cause irritation of the upper respiratory tract.

Skin:
Causes serious skin burns..

Eyes:
Corrosive. Causes severe eye burns, chemical conjunctivitis and corneal damage (redness, intense pain), possible irreversible impairment of vision or blindness.

Ingestion:
May cause serious irritation of the mucous membrane.

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

Get medical attention.
Fresh water and eye-wash preparations must be available on the worksite.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media:
Water, foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media:
Do not use water jet on substance's surface.

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 and 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 clothes, protective chemical-proof gloves (0.11 mm thick), safety glasses.

For emergency responders:
Protective clothes, protective chemical-proof gloves (0.11 mm thick), self-contained breathing apparatus, safety glasses.
Avoid skin and eye contact. Provide proper ventilation..

6.2. Environmental precautions:
Avoid discharging the product into sewage system and onto the ground at all costs.

6.3. Methods and material for containment and cleaning up:
In case of unexpected release of the substance into the environment, inform appropriate services about the emergency and remove any source of ignition. Prevent spills from entering sewers, surface water or groundwater. If it is possible, confine and contain the spill by closing the flow of the liquid, plug the damaged container and put it into leakproof wrapping. For a larger spill, make a dike around the outside edges of the spill and use absorbent materials (sand, sawdust, minced limestone).
Store clean-up materials 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:
Be careful when working with this product.
Use personal protection recommended in section 8
Mix only with water. DO NOT mix with any 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 the product.
After usage, keep container tightly closed and keep it away from unauthorized people.
Use only adequate ventilation to avoid inhalation poisoning.

7.2. Conditions for safe storage, including any incompatibilities:
Store in a tightly closed, original plastic container. Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor.
DO NOT expose the product to sunlight and 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.

NDS/NDSCh/NDSP values for individual chemical substances (according to SDS or Chemical Safety Report):

2-hydroxy-ethylamine (data for highly concentrated substance):
NDS: 2.5 mg/m^3
NDSCh: 7.5 mg/m^3
NDSP: not identified.

Sodium cumenesulphonate (data for highly concentrated substance):
NDS, NDSCh, NDSP: not identified

Sodium hydroxide (data for highly concentrated substance):
NDS: 0.5 mg/m^3
NDSCh: 1 mg/m^3
NDSP: not identified.

DNEL /PNEC values for individual chemical substances (according to SDS or Chemical Safety Report):

2-hydroxy-ethylamine (data for highly concentrated substance):

DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,	Value: 1 mg/kg
Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,	Value: 3.3 mg/m^3
Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,	Value: 0.24 mg/kg
Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,	Value: 2 mg/m^3
Group: consumers, Exposure time: long-term, Exposure route: ingestion, Type of effect: systemic effect,	Value: 3.75 mg/kg

PNEC:

Aqua (fresh water):	0.085 mg/l
Aqua (marine water):	0.0085 mg/l
Sediment (fresh water):	0.425 mg/kg
Sediment (marine water):	0.0425 mg/kg
Sewage treatment plant:	100 mg/l
Intermittent release:	0.025 mg/l
Soil:	0.035 mg/kg

Sodium cumenesulphonate (data for highly concentrated substance):

DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,	Value: 7.6 mg/kg
Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,	Value: 53.6 mg/m^3
Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,	Value: 3.8 mg/kg
Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,	Value: 13.2 mg/m^3
Group: consumers, Exposure time: long-term, Exposure route: ingestion, Type of effect: systemic effect,	Value: 3.8 mg/kg

Sodium hydroxide (data for highly concentrated substance):
DNEL, PNEC: not identified.

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

8.2. Exposure controls:

RESPIRATORY PROTECTION:
In case of insufficient ventilation, it is recommended to wear a gas mask with vapour absorber.

HAND PROTECTION:
Protective chemical-proof gloves (0.11 mm thick)

EYE/FACE PROTECTION:
Safety glasses. In case of contact with skin, use face shield.

SKIN PROTECTION:
Protective clothes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance:	Straw-coloured liquid
Odour:	Characteristic for materials used in production
Odour threshold:	No data available
pH:	14 ± 1
Melting point:	No data available
Freezing point:	No data available
Initial boiling point:	No data available
Boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Upper explosive limit:	No data available
Lower explosive limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.050 ± 0.020 g/cm^3
Solubility:	
A) Water:	soluble
B) Organic solvent:	No data available
Partition coefficient N-Octan:	No data available
Partition coefficient Water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

9.2. Other information:
Refractive index: 18% 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 section 7).

10.3 Possibility of hazardous reactions:
May violently react with acids (releases warmth).

10.4 Conditions to avoid:
Avoid heavily warmed rooms without ventilation and long-term exposure to sunlight.

10.5 Incompatible materials:
Acids, strong oxidizers.

10.6 Hazardous decomposition products:
No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

ACUTE TOXICITY:

Inhalation:
In case of long-time exposure and without proper ventilation system, it may cause irritation of the upper respiratory tract.

Skin:
Corrosive. Causes serious skin burns.

Eyes:
Corrosive. Causes severe eye burns, chemical conjunctivitis and corneal damage (redness, intense pain), possible irreversible impairment of vision or blindness.

Ingestion:
May cause serious irritation of the mucous membrane.

ATEmix = 16863	(acute toxicity, orally)
ATEmix = 14.46	(acute toxicity, inhalation)
ATEmix = 27855	(acute toxicity, dermal)

DETAILS OF PARTICULAR COMPONENTS (according to substances SDS):

2-hydroxy-ethylamine (data for highly concentrated substance):

LD50:	1515 mg/kg	(rat, orally)	(OECD 401)
LC50:	>1.3 mg/l/6h	(rat, inhalation)	
LD50:	2504 mg/kg	(dermal)	(OECD 402)

Skin irritation	(rabbit)	(OECD 404)
Serious eye irritation	(rabbit)	(OECD 405)
No allergic effect	(guinea pig)	(OECD 406)

Teratogenicity:
No distortions.

Reproductive toxicity:

The actual product wasn't tested. Following statements are based on products with similar structure.
After high enough dosage, we cannot exclude potential side effects that may cause fertility problems or other harmful effects on human body.

Sodium cumenesulphonate (data for highly concentrated substance):

LD50:	>7000 mg/kg	(rat, orally)
LD50:	>2000 mg/kg	(rabbit, dermal)

Doesn't irritate the skin.
p-cumenesulphonate sodium slightly irritates skin (rabbit, OECD 404).
Seriously damage eyes.
p-cumenesulphonate sodium irritates eyes (rabbit, OECD 405).
No allergic effects (guinea pig, OECD 406).
No mutagenic effects.
No carcinogenic effects (rat, OECD 453)

Reproductive toxicity:

NOAEL:	> 936 mg/kg	(rat, orally)

No problems detected.

Teratogenicity:

NOAEL:	> 936 mg/kg	(rat)

No problems detected.

Chronic toxicity:

NOAEL:	> 440 mg/kg	(dermal)	(OECD 411)
NOAEL:	763-3534 mg/kg	(orally)	(OECD 408)

Sodium hydroxide (data for highly concentrated substance):

LD50:	500 mg/kg	(rat, orally)

Very harmful after swallowing. Causes burns in mouth, throat and stomach. Risk of gastrointestinal perforation.
Corrosive effects on skin. Burns, deep wounds and skin necrosis.
Serious and irreversible eye damage. Risk of blindness.
No allergic effects.
No mutagenic effects.
No carcinogenic effects.
Corrosive effects on respiratory system. Causes irritation of the mucous membrane.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Data for the mixture ingredients:

2-hydroxy-ethylamine (data for highly concentrated substance):

LC50:	349 mg/l/96h	(fish, Cyrpinus carpio)	(semi-static)
LC50:	170 mg/l/96h	(fish,Carassius auratus)	(static)
EC50:	65 mg/l/48h	(daphnia, Daphnia magna)	(static)

EC50:	2.5 mg/l/72h	(algae, Selenastrum capricornutum)	(growth degree, OECD 201)
EC50:	22 mg/l/72h	(algae, Scendesmus subspicatus)	(growth degree)

Toxic to aqua organisms.

Sodium cumenesulphonate (data for highly concentrated substance):

EC50:	> 1000 mg/l/48h	(daphnia)	(EPA OPPTS EPA OTS 797.1300)
EbC50:	> 230 mg/l/96h	(algae)	(EPA OPPTS EPA OTS 797.1050)
NOEC:	31 mg/l/96h	(algae)	(EPA OPPTS)
ErC50:	> 1000 mg/l/3h	(bacteria)	(OECD 209/active sediment)
LC50:	> 1000 mg/l/96h	(fish)	(EPA OPPTS EPA OTS 797.1400)

Sodium hydroxide (data for highly concentrated substance):
Toxic for animals, aquatic organisms and bacteria. May adversely affect plant growth.

LC0:	157 mg/l/48h	(fish)
LC50:	189 mg/l/48h	(fish)
LC100:	213 mg/l/48h	(fish)

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.

Data for the mixture ingredients:

Substance	Method	Length	Degraded percentage
2-hydroxy-ethylamine	OECD 301 A	21 days	> 90%
Sodium cumenesulphonate	OECD 301 B	28 days	100%
Sodium hydroxide	Easily biodegradable	Easily biodegradable	Easily biodegradable

12.3. Bioaccumulative potential:

Bioaccumulation is not likely to happen – based on the mixture's ingredients.

12.4. Mobility in soil
The product is water soluble and may sink into 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 sewage system. Product should be totally used up according to its description.
If it's impossible to do so, 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 rinse the container 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: MOSQUITOS

14.1. UN Number:	UN 1719
14.2. UN proper shipping name:	Caustic alkali liquid, N.O.S. (hydroxyethylamine, sodium hydroxide)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
14.5. Environmental hazards:	No.
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 LABELS

SECTION 15. REGULATORY INFORMATION

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

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

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

DIRECTIVE 2008/112/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending Council Directives 76/768/EEC, 88/378/EEC, 1999/13/EC and Directives 2000/53/EC,2002/96/EC and 2004/42/EC of the European

Parliament and of the Council in order to adapt them to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

COMMISSION REGULATION (EU) No 758/2013of 7 August 2013correcting Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

DIRECTIVE 2014/27/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 amending Council Directives 92/58/EEC, 92/85/EEC, 94/33/EC, 98/24/EC and Directive 2004/37/EC of the European Parliament and of the Council, in order to align them to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents

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

REGULATION (EC) No 273/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 February 2004on drug precursors.

15.2. Chemical safety assessment

For mixture:

A Chemical Safety Assessment has not been carried out.

For following mixture substances:

2-hydroxy-ethylamine:	No data available.
Sodium cumenesulphonate:	A Chemical Safety Assessment has been carried out.
Sodium hydroxide:	A Chemical Safety Assessment has been carried out.

SECTION 16. OTHER INFORMATION

Information above is based on current knowledge of product in 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 symbols and H phrases from Section 2 and 3:

Acute Tox. 4	– Acute toxicity, category 4.
Met.Corr 1	– Substance/Mixture is corrosive to metals, category 1
Eye Dam. 1	– Serious eye damage, category 1.
Skin Irrit. 2	– Causes skin irritation, category 2.
Skin Corr. 1A	– Corrosive to skin, category 1A.
Skin Corr. 1B	– Corrosive to skin, category 1B.
Eye Irrit. 2	– Causes serious eye irritation, category 2.
STOT SE 3	– Specific target organ toxicity - Single exposure STOT, category 3.
H290	– May be corrosive to metals.
H302	– Harmful if swallowed.
H312	– Harmful in contact with skin.
H314	– Causes severe skin burns and eye damage.
H318	– Causes serious eye damage.
H319	– Causes serious eye irritation.
H332	– Harmful if inhaled.

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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.

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

Changes compared to the previous version:
General update

Updated cards versions are now available on www.tenzi.pl

This Safety Data Sheet contains 12 pages. Changes in the content by unauthorized people is prohibited.