

SAFETY DATA SHEET

Prepared in accordance with Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2015/830

Bug remover – Alkaline Cleaner

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Prepared on: 25-FEB-16988

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. **Product identifier: mixture/trade name:** Bug Remover – Alkaline Cleaner.
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against:** Car exterior cleaner. For professional use only. Do not use for the uses other than those identified above.
- 1.3. **Details of the supplier of the safety data sheet: manufacturer / supplier:** Nanoplius UAB, Partizanų St. 26, LT-50219, Kaunas, Lithuania, Phone +37061850079, +37060997521, info@ewocar.com. Person responsible for Safety Data Sheets: Nanoplius, UAB: info@ewocar.com, phone +37060997521
- 1.4. **Emergency telephone number:** Lithuania Poisons Control and Information Bureau. Phone +370 5 236 2052, mobile phone +370 687 53378.

2. Hazards identification

2.1. **Classification of the mixture:** in accordance with Regulation (EC) No 1272/2008 the mixture is classified as follows:



GHS05

Physical hazards: not classified
Health hazards: skin corrosion, hazard category 1A, H314
Environmental hazards: not classified

2.2. **Label elements:** in accordance with Regulation (EC) No 1272/2008 (CLP)

Hazard pictogram and signal word:



Hazardous

Hazard statement: H314 Causes severe skin burns and eye damage.

Precautionary statements:

Prevention:

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection

Response:

P301+P330+P331 INGESTION: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or eyes): Remove/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.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to hazardous waste disposal sites.

Contains sodium hydroxide and sodium metasilicate.

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Content in accordance with Regulation (EC) No 648/2004:
5 % or over but less than 15 % anionic surface-active agents;
less than 5 % EDTA salts; less than 5 % NTA salts.

2.3. Other hazards:

Results of PBT and vPvB assessment:

Health hazards: Ingestion may damage the mucosa of the digestive tract. Vapors may irritate the respiratory tract.

Hazards associated with the possibility of ignition or explosion: non-flammable, non-explosive mixture.

Environmental hazards and possible consequences of damage: may contain small concentration of surfactants hazardous to the aquatic environment. In accordance with the principles of environmental protection, it is not recommended to pour the mixture into open bodies of water, soil, bypassing sewage treatment plants.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixtures. Description of the mixture: water-based mixture of the substances listed below and beneficial additives.

3.2. Hazardous components (ingredients):

Component	CAS No.	EC No.	Amount, %	Chemical hazard
Sodium laurilsulfate, alcohols, C12-14, ethoxylated, sulfates, sodium salts, 1–2,5 EO Reg Nr. 01- 2119488639-16-xxxx	68891-38-3	500-234-8	0,5 - 1	Causes serious eye damage, hazard category 1, H318; skin irritation, hazard category 2, H315; Aquatic Chronic, hazard category 3, H412
Sodium hydroxide Index-No. 011-002-00- 6 Reg. No. 01- 2119457892-27-xxxx	1310-73-2	215-185-5	1 - 5	Skin corrosion, hazard category 1A, H314; H290 Specific concentration limit: skin corrosion, 1A, H314: C $\geq$ 5% skin corrosion, 1B, H314: 2% $\leq$ C<5%
tetranatrium etilendiamintetraetanoat REACH reg. no: 01- 2119486762-27 INDEX no: 607-428-00-2	64-02-8	200-573-9	1–3	Eye irritation, hazard category 2, H319
Sodium metasilicate Index-No. 014-010-00-8 Reg. No. 01- 2119449811-37-xxxx	6834-92-0	229912-9	1 - 2	Skin corrosion, hazard category 1B, H314; STOT SE 3, H335; Metal corrosion 1, H290

Occupational exposure limit values (OELs) for the components in the air of the working environment are specified in Section 8 of this SDS. The meanings of hazard statements and pictograms are specified in Section 16 of this SDS.

<http://chemija.gamta.lt/files/ghs08.jpg>

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4. FIRST AID MEASURES

4.1. Description of first aid measures:

Inhalation: If feeling unwell, remove victim to fresh air, sit or lie down, do not disturb. If the symptoms persist, seek medical attention.

Contact with skin: Take off contaminated clothes and shoes immediately. Wash the skin thoroughly with soap and water. Seek medical attention immediately.

Contact with eyes: immediately wash (irrigate) the eyes with large amounts of clean running water for several minutes, occasionally lifting the lower and upper lids (remove contact lenses, if any). If you experience irritation or symptoms of inflammation, see an eye care professional immediately.

Ingestion: Rinse mouth. Drink 1-2 glasses of water or milk. Do not induce vomiting. Drink a glass of water again every 10 minutes. Seek medical attention.

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

–Contact with eyes: causes eye damage

–Contact with skin: causes skin burns

–Inhalation: may cause respiratory irritation

–Ingestion: stomach cramps, pain may occur, can cause nausea, vomiting.

4.3. Indication of any immediate medical attention and special treatment needed: if feeling unwell or in doubt, consult a doctor and show this SDS or the label of the mixture. Notes to doctor: treat according to symptoms. Toxicological information - see Section 11 of this SDS.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media: CO2 foam, extinguishing powder, fine water spray. Extinguishing media must be selected after evaluating the properties of the surrounding burning materials

Unsuitable extinguishing media: unknown.

5.2. Special hazards arising from the substance or mixture: In the event of a fire, packaging materials may burn, components may be destroyed, harmful fumes, carbon dioxide, carbon monoxide, etc. may be produced. Avoid inhalation harmful compounds.

5.3 Advice for firefighters: isolate the accident site immediately, remove all persons not involved in firefighting. Firefighting personnel must use self-contained breathing apparatus and wear appropriate protective clothing (LST EN 469). Fire extinguishing media must not enter open bodies of water.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel: only personnel removing the consequences of the accident must remain in the premises. Avoid contact with eyes and skin. Do not swallow. Do not inhale vapors. Use personal protective equipment – protective clothing, glasses, gloves, respiratory protection.

6.1.2. For emergency responders: ensure proper ventilation of premises. Use special clothing and equipment.

6.2. Environmental precautions: do not pour the mixture or its waste into open bodies of water or soil bypassing the soil treatment facilities. In case of spillage of large quantities of the mixture, notify environmental protection services.

6.3. Methods and material for containment and cleaning up: Cover the spilled mixture with non-flammable absorbent materials (moist sawdust, sand, diatomite, vermiculite, etc.), collect and pour into a hazardous waste container. Ventilate the premises. Dispose of hazardous waste in accordance with hazardous waste management requirements/

6.4. Reference to other sections: personal protective equipment – see Section 8 of this SDS; waste management – see Section 13 of this SDS.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling: Comply with occupational safety and hygiene requirements. Wear work clothes, protective gloves, use safety glasses and respiratory protection. Avoid contact with eyes, skin and clothing. Do not swallow. Do not inhale vapors

Do not eat, drink or smoke while working. Wash hands after work and before breaks, remove contaminated clothes before eating. Ensure proper ventilation of premises.

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7.2. Conditions for safe storage, including any incompatibilities: Store the cleaner in closed original packaging in a well-ventilated room.

Storage temperatures: 5°C to 30°C. Packaging must be tight, durable, resistant and labeled. Keep out of reach of children. Keep away from food, drink and animal feed. Keep away from direct sunlight. Do not mix with acids.

7.3. Specific end use(s): alkaline car exterior cleaner. For method of use and other information see the label or instructions for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters: Occupational exposure limit values (OELs) for the components of the mixture in the air of the working environment according to HN 23:2011 are as follows:

Component	Cas. No.	Long Term Exposure Limit (LTEL, mg/m ³)	Short-term exposure limit (STEL, mg/m ³)
Sodium hydroxide	1310-73-2	-	2 (limit not exceeded)

DNEL values: N/A.

PNEC values: N/A.

8.2. Exposure controls:

8.2.1. Appropriate engineering controls: Very good ventilation of storage and working premises (local exhaust ventilation or other technical measures) so that the long-term and short-term exposure limit values of dangerous concentrations of the mixture components in the air of the working environment do not exceed the regulated limits.

8.2.2. Individual protection measures:

Respiratory protection: Do not inhale vapors, use suitable respiratory protection (LST EN 14387).

Hand and skin protection: Avoid contact with skin. Wear protective gloves (LST EN 374). Suitable protective gloves shall be selected based on quality, durability, and duration of use

Eye / face protection: Avoid contact with eyes. Use safety goggles (LST EN 166).

General protection and personal hygiene measures: Wear clean work clothes. Wash contaminated clothing before re-using. Follow the rules of personal hygiene. Wash hands after work and before breaks. Do not eat, drink or smoke during work. Eyewash equipment must be available near the workplace.

8.2.3. Environmental exposure controls: Continuous control of emissions from the ventilation system or from the surface of process equipment must be ensured.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Physical state:	Liquid
Color:	Green
Odor:	Specific
Hydrogen-ion indicator (pH):	12,2 – 12,6
Boiling point, °C:	>100
Flash point °C:	N/A
Auto-ignition temperature, °C:	N/A
Explosion limits:	non-explosive
Density, g/cm ³ :	1,05 – 1,10
Solubility in water:	mixes with water

9.2. Other information:

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10. STABILITY AND REACTIVITY

10.1. Reactivity: no data.

10.2. Chemical stability: Stable when used as intended and in compliance with storage rules and safety requirements.

10.3. Possibility of hazardous reactions: no data.

10.4. Conditions to avoid: no data.

10.5. Incompatible materials: acids.

10.6. Hazardous decomposition products: no data.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects: The health effects of the mixture depend on the substances it contains.

Likely routes of exposure: skin, eyes, ingestion, inhalation.

a) acute toxicity: No data.

b) skin corrosion/irritation: causes burns (corrosion).

c) serious eye damage/irritation: causes eye damage.

d) respiratory irritation: no data.

e) respiratory or skin sensitisation: no data.

f) germ cell mutagenicity: no data.

g) carcinogenicity: no data.

h) reproductive toxicity: no data.

i) STOT-single exposure, STOT-repeated exposure: no data.

j) aspiration hazard: no data.

11.2. Information on toxicological effects:

Sodium hydroxide, CAS Nr.1310-73-2:

LD50 Ingestion, rats: 2000 mg/kg;

LC50 Inhalation, rats: 2300 mg/m³ /2h

11.3. Other information: May be harmful to the digestive tract. Vapor may cause respiratory irritation.

12. ECOLOGICAL INFORMATION

12.1. Toxicity / Ecotoxicity: the mixture can change pH of the water. Components: Sodium hydroxide, CAS Nr.1310-73-2; LC50 fish (*Oncorhynchus mykiss*): 45,4 mg/l/96 h

LC50 invertebrate (*Daphnia magna*): 30–100 mg/l/48h

12.2. Persistence and degradability: The anionic surfactants contained in the mixture are biodegradable and meet the requirements of Regulation (EC) No 648/2004.

12.3. Bioaccumulative potential: no data.

12.4. Mobility in soil: no data.

12.5. Results of PBT and vPvB assessment: Not classified as PBT and vPvB according to EU criteria.

12.6. Other adverse effects: Pursuant to environmental protection principles, the mixture must not enter open water bodies and soil bypassing treatment facilities

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods: Disposal of product waste: Waste code: 20 01 29 (detergents containing hazardous chemicals).

Handling of contaminated packaging: Packaging waste code: 15 01 02 (plastic packaging); 15 01 10 (packaging containing residues of or contaminated by hazardous substances).

14. TRANSPORT INFORMATION

The mixture is classified as hazardous for transportation and is subject to the requirements of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), Sea Transport (IMDG/GGVS) or Air (ICAO/IATA).

14.1. UN number: 1719

14.2. UN proper shipping name: alkaline liquid, corrosive, K.N.

14.3. Transport hazard class(es): 8 corrosive materials, classification code C9

14.4. Packing group: II

14.5. Environmental hazards: –

14.6. Danger signs: No. 8

14.7. Special precautions for user: hazard identification No. 80

14.8. Transport in bulk according to Annex II of Marpol and the IBC Code: N/A.



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15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), as amended;
- 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, as amended;
- Commission Regulation (EU) No 453/2010 of 20 May 2010 amending REACH Regulation;
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending REACH Regulation;
- Lithuanian Hygiene Norm HN 23:2011 Occupational Exposure Limits for Chemical Substances. General Requirements for Measurement and Impact Assessment;
- Rules on Waste Management approved by Order No 217 of the Minister of Environment of the Republic of Lithuania of July 14, 1999 (new version approved by Order No. D1–368 May 3, 2011);
- Regulation (EC) No. 648/2004 of the European Parliament and of the Council on detergents;
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), 2015.
- Commission Regulation (EU) 2020/878 of 18 June 2020 amending REACH Regulation;

5.2. Chemical safety assessment: N/A.

16. OTHER INFORMATION

The meanings of the hazard statements and pictograms specified in Section 3:



GHS05



GHS07



GHS08

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
H335 May cause respiratory irritation
H351 Suspected of causing cancer
H412 Harmful to aquatic life with long lasting effects

Abbreviations and acronyms used:

CAS – Chemical Abstracts Service
EB Nr. – EC Inventory
PBT- Persistent, Bioaccumulative and Toxic
vPvB - very Persistent and very Bioaccumulative
DNEL – derived no-effect level
PNEC – predicted no effect concentration
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA – International Air Transport Association
ICAO – International Civil Aviation Organization
RID – Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG International Maritime Dangerous Goods Code
UN – United Nations

The information contained in this safety data sheet must be available to anyone whose work involves the chemical mixture. The data provided according to the best knowledge currently available, national and EU legislation. The information provided indicates what health and occupational safety and environmental protection requirements must be observed and what preventive measures must be applied to reduce or avoid hazards when storing and using this product, but does not reveal other, specific properties of the chemical mixture.

For additional information please contact Nanoplus UAB.