NANOMAX FOR PLASTIC

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

1.1 **Product identifier: NANOMAX FOR PLASTIC**

1.2 **Appropriate identified uses of the substance or mixture and uses advised against:**

1.2.1 Appropriate uses: Professional product for cleaning, preserving and protecting plastic.

1.2.2 Inappropriate uses: Undefined

1.3 **Details of the supplier of the safety data sheet:**

1.3.1 Producer: **DYNAMIC TECHNOLOGY SP. Z O.O. (LLC.)**

1.3.2 Address: ul. Fabryczna 12; 32-500 Chrzanów

1.3.3 Telephone no. : +48 32 611 09 38

1.3.4 e-mail address: think@dynamic.pl

1.4 **Emergency telephone no.**: +48 32 611 09 38 (weekdays: 8^{00}- 15^{00}), 112

SECTION 2: HAZARDS IDENTIFICATION

2.1 **Classification of the substance or mixture:**
2.1.1. Hazardous to humans: Product is classified as dangerous.
Eye Irrit.2- Eye irritation, category 2
H319- Causes serious eye irritation
2.1.2 Environmental hazards: Product is not classified as dangerous to the environment.
2.1.3 Hazards imposed by physical or chemical properties: Product is not classified as dangerous.
2.2. **Label elements:**
2.2.1 Pictograms identifying hazard:

2.2.2 Warning: WARNING
2.2.3 Names of hazardous ingredients on label: Non-applicable.
2.2.4 Hazard statements: H319- Causes serious eye irritation.
2.2.5 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. P405- Store locked up.
2.2.6 Additional information: non-ionic surfactants- less than 15%; anionic surfactants- less than 5%; fragrance compositions; preservatives: 2-bromo-2-nitropropane-1,3-diol, octylisothiazolinone
2.3 **Other hazards:** No information on meeting PBT/vPvB criteria in accordance to annex XIII EU Regulation no 253/2011 from 15.03.2011. Research has not been conducted.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances:** Non-applicable
3.2 **Mixtures:**

Substance identification	Concentration range	CAS number	WE number	Classification according to 1272/2008/WE
2-(2-Butoxyethoxy)ethanol Registration no.: 01-2119475104-44-xxxx	0,5%-1,5%	112-34-5	203-961-6	Eye Irrit. .2, H319
Sulfonic acids, C14-17-sec-alkane, sodium salts Registration no.: 01-2119489924-20-0000	0,5%-1,1%	97489-15-1	307-055-2	Acute Tox.4, H302 Skin Irrit.2, H315 Eye Dam.1, H318 Aquatic Chronic 3, H412

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:
4.1.1 Ingestion: If swallowed rinse mouth with water, remove dentures if present. Reach the nearest medical facility to seek treatment. Have product label at hand. If spontaneous vomiting occurs, hold head beneath hips

4.1.2 Inhalation: Remove from place of exposure to fresh air. Let subject rest and relax. In case of coughing, vomiting, nausea, wheezing seek medical attention. If unconscious put in lateral position.
4.1.3. Skin contact: Remove contaminated clothing. Wash skin with warm water and soap. In case of skin irritation seek medical advice.
4.1.4. Eye contact: Remove contact lenses immediately. Thoroughly rinse eyes with large amount of water, turning eyelids inside out. Provide medical attention. Warning: persons in danger of contaminating eyes are to be instructed on the importance and methods of immediate eye washing.
4.2 Acute and delayed symptoms:
4.2.1 Eye contact: Irritation, reddening and tearing may occur.
4.2.2 Ingestion: Nausea, vomiting and stomach pains may occur.
4.3 Indication of any immediate medical attention and special treatment needed: Symptomatic treatment.

SECTION 5: FIRE-FIGHTING MEASURES
5.1 Extinguishing media:
5.1.1 Suitable extinguishing media: Use conventional media, depending on surroundings.
5.1.2 Unsuitable extinguishing media: Unknown.
5.2 Specific hazards related to ingredients: Unknown. Avoid breathing thermal decomposition products.
5.3 Advice for firefighters: Use regular fire-protection equipment. Do not stay in environment in danger of fire without chemical resistant equipment and breathing apparatus with independent air supply. If not too dangerous remove containers which are exposed to fire or cool with water spray from safe distance.

SECTION 6: ACCIDENTAL RELEASE GUIDELINES
6.1 Personal precautions, protective equipment and emergency procedures:
6.1.1 For non-personnel eliminating effects of accident: Restrict access of bystanders to area of accident until it is clear of danger. In case of large spill isolate exposed area. Avoid prolonged contact with skin. Avoid contact with eyes. Wear appropriate protective equipment. Act in accordance to health and safety regulations for handling chemicals.
6.1.2 For personnel eliminating effects of accident: Eliminating the breakdown and it's effects can only be carried out by specially trained personnel. Use appropriate chemical-resistant personal protection equipment.
6.2 Environmental safety precautions: Prevent drinking water, soil, sewage contamination. If possible eliminate spill (ie. seal leaking container, close off water source, encapsulate leaking container in a sealed one). Contact appropriate public services if needed.
6.3 Methods and materials for containment and cleaning up: Wipe small spills with paper towel. In case of large spills: stop leakage if safe. Rampart area of spill and fill with absorbent material like sand, dirt and collect in a sealed, marked container. Wash exposed area with large amount of water.
6.4 References to other sections: waste disposal guidelines – section 13, personal protection equipment – section 8.

SECTION 7: HANDLING AND STORAGE
7.1 Precautions for safe handling: Act in accordance to health and safety regulations. Avoid eye contact. Do not inhale fumes or vapours. Wash hands before break and after work. Keep unused containers sealed. Maintain appropriate ventilation of area where product is used. Use product according to guidelines on the label.
7.2 Conditions of safe storage, and information on incompatibility with other substances: Keep well sealed, away from sources of ignition. Keep away from children. Do not store with food products.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION
8.1 Control parameters: Based on mixture ingredients:
2-(2-butoxyethoxy)ethanol NDS 67 mg/m3; NDSCh 100 mg/m3
DNEL for personnel:
In respiratory tract acute toxicity conditions (local effect) 101,2 mg/m3
In long-term exposure to skin conditions 20 mg/kg/1d
In long-term exposure to respiratory tract conditions 67,5 mg/m3
In long-term exposure to respiratory tract conditions (local effect) 67,5 mg/m3
DNEL for consumers:
In respiratory tract acute toxicity conditions (local effect) 50,6 mg/m3
In long-term exposure to skin conditions 10 mg/kg/1d
In long-term exposure to respiratory tract conditions 34 mg/m3
In long-term exposure to digestive tract conditions 1,25 mg/kg/1d
In long-term exposure to respiratory tract conditions (local effect) 34 mg/m3
PNEC:
For fresh water environment 1 mg/l
For salt water environment 0,1 mg/l
For fresh water sediment environment 4 mg/kg
For salt water sediment environment 0,4 mg/kg

For soil environment 0,4 mg/kg
NDS= 67 mg/m3; NDSCh= 100 mg/m3
TWA 10 ppm; 67,5 mg/m3 (ECTLV)

Sulfonic acids, C14-17-sec-alkane, sodium salts:
DNEL Value

Way of exposure	Exposure group	Exposure duration/effect	Value
Skin contact	Employees	Acute- local effect	2,8 mg/cm2
Skin contact	Employees	Prolonged- general effect	5 mg/kg body mass/ day
Inhalation	Employees	Prolonged – general effect	35 mg/m3
Skin contact	Employees	Prolonged- local effect	2,8 mg/cm2
Skin contact	General population	Acute – local effect	2,8 mg/cm2
Skin contact	General population	Prolonged- general effect	3,57 mg/kg body mass/day
Inhalation	General population	Prolonged- general effect	12.4 mg/m3
Oral	General population	Prolonged – general effect	7,1 mg/kg body mass/ day
Skin contact	General population	Prolonged- local effect	2,8 mg/cm2

PNEC Value
Freshwater 0,04 mg/l
Saltwater 0,004 mg/l
Water (periodic release) 0,06 mg/l
Freshwater sediment 9,4 mg/kg sediment
Saltwater sediment 0,94 mg/kg sediment
Soil 9,4 mg/kg soil
Sewage treatment station 600 mg/l

8.2 Exposure control: Act in accordance to health and safety regulations. Do not eat, drink or smoke while working. Avoid eye contact. Ensure proper ventilation. Provide eye-cleaning facilities near work station. Immediately remove contaminated clothing.
8.2.1 Respiratory tract protection: Use when there is no proper ventilation.
8.2.2 Eye/face protection: Use eye protection.
8.2.3 Skin protection: Wear protective gloves.
8.2.4 Technical protection measures: Room ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: transparent to ivory
Smell: characteristic
Smell threshold: Undefined
pH: 10,5
Melting/freezing point: no data
Boiling point: no data
Flash point temperature: no data
Evaporation rate : no data
Flammability: no data
Upper/lower flammability/ explosiveness threshold: non-applicable
Vapour pressure: no data
Vapour density: no data
Relative density: 0,98 g/ml
Solubility: very good in water
Coefficient of n-octanol/water: no data
Self-ignition temperature : non-applicable
Decomposition temperature: no data
Viscosity: no data
Explosive properties: non-applicable
Oxidizing properties: no data

9.2 Other information: no data

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Product is not reactive when stored and handled in accordance to section 7.
10.2 Chemical stability: Stable in regular use conditions.
10.3 Risk of dangerous reactions: No data.
10.4 Conditions which are to be avoided: Extreme temperatures, sources of heat and sunlight.
10.5 Incompatible substances: No data.
10.6 Hazardous decomposition products: No data.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:
2-(2-butoxyethoxy)ethanol:
Concentration, lethal and harmful doses:
Oral LD50 2410 mg/kg (mouse)
Skin contact LD50 2764 mg/kg (rabbit)
Inhalation > 29 ppm 2h (IRT) (rat)
Causticity/ skin irritation (rabbit): not irritating to skin
Serious eye damage/skin irritation (rabbit): irritating
Allergenic effects (rabbit)- no allergenic effects

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: Product is not classified as hazardous to the environment.
12.2 Stability and degradability: Surfactant ingredient is biodegradable according to the criteria in regulation 648/2004/WE
12.3 Bioaccumulative potential: No data
12.4 Mobility in soil: No data
12.5 PBT and vPvB properties: No data
12.6 Other harmful effects:
Information based on ingredients:
2-(2-butoxyethoxy)ethanol:
Toxicity for fish LC50 (96h) 1300 mg/l (Lepomis macrochirus)
Aquatic invertebrates EC50 (48h) > 100 mg/l (Daphnia magna)
Water plants EC50 (96h) > 100 mg/l (Scenedesmus subspicatus)
Microorganisms: EC10 (30 min) > 1995 mg/l, active sediment, industrial

SECTION 13: WASTE DISPOSAL MANAGEMENT

13.1 Methods for waste disposal:
13.1.1 Recommendations for mixture disposal: Act accordingly to local laws. Assign waste code at place of use.
13.1.2 Recommendations for empty containers: Recycle/dispose of according to local laws. Only completely empty containers can be recycled.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number: Non-applicable. Product is not classified as hazardous in transport.
14.2 Correct shipping name/class: Non-applicable
14.3 Transport hazard class: Non-applicable
14.4 Packaging group: Non-applicable
14.5 Environmental hazard: Mixture does not impose threat to environment.
14.6 Special safety precautions for handlers: Non-applicable
14.7 Loose transport according to annex II to MARPOL convention and the IBC codex: Non-applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental protection legal provisions, specific for the substance and mixture:
1272/2008 / EC Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC) No. 1907/2006 (Journal of Laws UE L 353 of 31 December 2008) Act of November 24, 2017 on the publication of the uniform text of the Act on chemical substances and mixtures (Journal of Laws 2018 item 143) Announcement of the Minister of Health of 2 March 2015. on the publication of a uniform text of the regulation of the Minister of Health on labelling packaging of hazardous substances and mixtures and certain mixtures (Journal of Laws of 2015, item 450)
Regulation of the Ministry of Labor and Social Policy of June 6, 2014. on the highest allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2014, item 817) Government Statement of February 18, 2019 on the entry into force of amendments to Annexes A and B to the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957 (Journal of Laws No. 2019, Item 769)
Regulation of the Minister of Economy of December 21, 2005 on the essential requirements for personal protective equipment (Journal of Laws No. 259, item 2173)

15.2 Chemical safety assessment:
The manufacturer did not assess chemical safety of the mixture.

SECTION 16: OTHER INFORMATION

The information contained in this Safety Data Sheet has been based on sources and technical knowledge as well as applicable law at European and national level, and its accuracy cannot be fully guaranteed. This information cannot be treated as a guarantee of product properties, as it is only a description of safety requirements. The methods and working conditions of the users of this product are beyond the reach of our knowledge and control, so the user is solely responsible for taking appropriate measures to comply with legal requirements regarding the handling, storage, use and disposal of chemical products. The information contained in this Safety Data Sheet applies only to the product that must not be used for purposes other than those specified therein. Every employee handling this product should be trained in appropriate workplace health and safety procedures.

Abbreviations used in the text:
H302 - Harmful if swallowed
H315 -Causes skin irritation
H319 - Causes serious eye irritation
H318- Causes serious eye damage
H412- Is harmful to waterlife, causing long-term effects

Eye Irrit.2 – Eye irritation category 2
Skin Irrit.2 – Skin irritation category 2
Acute Tox.4 – Acute toxicity category 4
Eye Irrit. 2 – Eye irritation, category 2
Eye Dam. 1 – Eye damage, category 1

Classification method (WE) 1272/2008 (CLP)
Eye Irrit.2, H319 – classified using calculation method