SAFETY DATA SHEET

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council as amended

TURBO

Date of creation	25.03.2013		
Date of revision	18.11.2022	Version number	3.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier TURBO

Substance/mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended uses of the mixture

Maintenance cleaning of motor vehicles and other alkali-resistant surfaces

Uses advised against

no data available

1.3. Details of the supplier of the safety data sheet

Distributor

Name or trade name	BKF Myjnie Bezdotykowe Sp. z o.o.
Address	Skarbimierzyce 22, Dołuje, 72-002 Poland
Phone	+48 91 8147 105
E-mail	info@bkfmyjnie.pl
Website address	bkfmyjnie.pl

E-mail address of the competent person responsible for the safety data sheet

Name	BKF Myjnie Bezdotykowe Sp. z o.o.
E-mail	info@bkfmyjnie.pl

1.4. Emergency telephone number

112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture according to Regulation (EC) No 1272/2008

Mixture classified as hazardous.

Skin Irrit. 2, H315
Eye Dam. 1, H318

The full wording of all classifications and H-phrases is given in section 16.

Most serious adverse effects on human health and the environment

Causes serious eye damage. Causes skin irritation.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

D-glucopyranose, oligomers C8-10 alkyl glycosides
tetrasodium vermiculose
potassium hydroxide

Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.

BKF Myjnie

Precautionary statements

P280	Wear protective gloves/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and can be easily removed. Continue to rinse.
P310	Call a POISON CENTER/doctor immediately.

Further information

<5 % anionic surfactants, <5 % non-ionic surfactants, <5 % EDTA (ethylenediaminetetraacetic acid) and salts thereof

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The mixture does not contain substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterisation

Mixture of the following substances and additives.

The mixture contains the following hazardous substances and substances with specific maximum concentrations in the working atmosphere

Identification numbers	Name of substance	Content in % by weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68515-73-1 EC: 500-220-1 Registration number: 01-2119488530-36	D-glucopyranose, C8-10 oligomers alkyl glycosides	<2	Eye Dam. 1, H318	
Index: 607-428-00-2 CAS: 64-02-8 EC: 200-573-9 Registration number: 01-2119486762-27-XXXX	tetrasodium edetate	<1,6	Acute Tox. 4, H302+H332 Eye Dam. 1, H318 STOT RE 2, H373 (routes (inhalation) (inhalation)	
Index: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3 Registration number: 01-2119487136-33-XXXX	Potassium hydroxide	<0,7	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Specific concentration limit: Skin Irrit. 2, H315: 0.5 %≤ C < 2 % Skin Corr. 1A, H314: C≥ 5 % Skin Corr. 1B, H314: 2 %≤ C < 5 % Eye Irrit. 2, H319: 0,5 %≤ C< 2 %	1
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	<0,3	Eye Irrit. 2, H319	1, 2

Comments

1 Substance for which exposure limits have been established.

2 The use of the substance is restricted in Annex XVII of REACH The full wording of all

classifications and H-phrases is given in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care for your own safety. If health problems occur or in case of doubt notify a doctor and provide him with the information from this safety data sheet.

In case of inhalation

Immediately stop exposure, move victim to fresh air.

In case of contact with skin

Put away soiled clothing. Wash the affected area with plenty - if possible - of lukewarm water. If the skin has not been injured, soap, soapy water or shampoo may be used. Ensure medical attention if skin irritation persists.

In case of eye contact

Rinse the eyes immediately with a jet of water, dilate the eyelids (even with force); if the victim wears contact lenses, remove them immediately. Do not neutralise under any circumstances! Rinse for 10-30 minutes from the inner corner to the outer corner, so that the other eye is not affected. Depending on the situation, call an ambulance or get medical attention as soon as possible. Everyone should be referred for examination, even in cases of minor contamination.

In case of ingestion

DO NOT EXCUSE VOMITATION - even just inducing vomiting can cause complications, for example with detergents and other foam-producing substances.

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

Inhalation of vapours may cause damage to the respiratory system.

On contact with skin

Irritating to skin.

In case of eye contact Causes serious eye damage. **If swallowed**

May cause damage to the digestive system.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water - dispersed stream, water mist.

Unsuitable extinguishing media

Water - full stream.

5.2. Special hazards arising from the substance or mixture

Fire may produce carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous combustion products (pyrolysis) may lead to serious health damage.

5.3. Information for firefighters

Self-contained breathing apparatus with chemical protective clothing only in circumstances where personal (close) contact is likely. Use insulating oxygen apparatus and full-body protective suit. Do not allow contaminated extinguishing agents to enter drains, surface water or groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use operational personal protective equipment. Follow the instructions in Sections 7 and 8. Do not allow contact with eyes or skin.

6.2. Environmental precautions

Prevent contamination of soil and release to surface water or groundwater.

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6.3. Methods and material for containment and cleaning up

Cover the spillage with suitable (non-flammable) absorbent material (sand, silica, soil and other suitable absorbent materials, etc.), collect in well closed containers and dispose of in accordance with section 13. In the event of a major spill, inform the fire brigade and other competent authorities. After disposal, wash the contaminated area with plenty of water. Do not use solvents.

6.4. Reference to other sections

See sections 7., 8. and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the maximum permissible concentrations for the working atmosphere. Do not allow contact with eyes and skin. Wash hands and affected body parts thoroughly after use. Use the working personal protective equipment according to section 8. Observe applicable safety and health legislation.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in a cool, dry and well ventilated place.

Contents	Type of packaging	Packaging material
20 l	canister	HDPE

Storage temperature min 5 °C, max 35 °C

7.3. Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protective equipment

8.1. Control parameters

The mixture contains substances for which occupational exposure limits have been set.

Poland **OJ. 2018 item 1286**

Name of substance (ingredients)	Type	Value
Potassium hydroxide (CAS: 1310-58-3)	WEL	0.5 mg/m³
	WEL	1 mg/m³
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	WEL	67 mg/m³
	WEL	100 mg/m³

European Union **Commission Directive 2006/15/EC**

Name of substance (ingredients)	Type	Value
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	OEL 8 hours	67.5 mg/m³
	OEL 8 hours	10 ppm
	OEL 15 minutes	101.2 mg/m³
	OEL 15 minutes	15 ppm

DNEL

Tetrasodium edetate

Workers/consumers	Route of exposure	Value	Effects	Determination of values	Source
Employees	Inhalation	1.5 mg/m³	Chronic local effects		SDS

PNEC

Tetrasodium edetate

Route of exposure	Value	Determination of value	Source
Drinking water	2.86 mg/l		SDS

tetrasodium edetate

Route of exposure	Value	Determination of value	Source
Seawater	0.286 mg/l		SDS
Water (intermittent seepage)	1.56 mg/l		SDS
Soil (agricultural)	0.937 mg/kg		SDS
Micro-organisms in sewage treatment plants	55.94 mg/l		SDS

8.2. Exposure controls

The usual occupational health measures should be observed, above all good ventilation. This can be achieved by local air extraction or effective general ventilation. Do not eat, drink or smoke while working. Wash your hands thoroughly with soap and water after work and before taking a break for food and rest.

Eye or face protection

Safety goggles or face shield (depending on the type of work involved).

Skin protection

Hand protection: Protective gloves resistant to the product. Following the recommendations of the specific glove manufacturer, choose the appropriate thickness, material and permeability. Follow other manufacturer's recommendations. Other means of protection: Work protective clothing. Wash skin thoroughly if contaminated.

Respiratory protection

Half mask with filter against organic vapours in environment with difficult ventilation.

Heat hazard

No data available.

Environmental exposure controls

Please observe the usual measures for the protection of the working environment, see section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	gaseous
Colour	brown
Odour	Characteristic of the raw materials used
Melting point/freezing point	no data
Boiling point or initial boiling point and boiling range	no data
Flammability of materials	no data
Lower and upper explosion limits	no data available
Flash point	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	14 (undiluted)
Kinematic viscosity	no data available
Solubility in water	soluble
Partition coefficient n-octanol/water (log ratio)	no data available
Vapour pressure	no data available
Density or relative density	
Density	1,000 - 1,040 g/cm³
Relative vapour density	no data available
Particle characteristics	no data available
Form	liquid

9.2. Other information

no data available

SECTION 10: Stability and reactivity

10.1. Reactivity

no data available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

Under normal use, the product is stable, no decomposition occurs. Protect from flames, sparks, overheating and from frost.

10.5. Incompatible materials

Protect from strong acids and bases and from oxidising substances.

10.6. Hazardous decomposition products

Not formed under normal use. Hazardous products are formed at high temperatures and during fire, e.g. carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data available for the mixture.

Acute toxicity

ATE mix= 29 158 mg/kg - oral route ATE mix=
62.5 mg/l - inhalation
Based on available data it does not meet the classification criteria. D-glucopyranose, oligomers C8-10 alkyl glycosides

Route of exposure	Parameter	Method	Value	Exposure duration	Species	Sex	Determination of value	Source
Oral route	LD_{50}		>2000 mg/kg		Rat (Rattus norvegicus)			safety data sheet

tetrasodium edetate

Route of exposure	Parameter	Method	Value	Exposure duration	Species	Sex	Determination of value	Source
Oral route	LD_{50}	OECD 401	1780 mg/kg		Rat (Rattus norvegicus)			SDS
Inhalation	LC_{50}	OECD 412	>1-5 mg/l	4 hrs	Rat (Rattus norvegicus)		Analogous approach	SDS

Potassium hydroxide

Route of exposure	Parameter	Method	Value	Exposure duration	Species	Sex	Determination of value	Source
Oral route	LD_{50}		273 mg/kg		Rat			

Skin corrosion/irritation

Causes skin irritation.

D-glucopyranose, C8-10 oligomers alkyl glycosides

Route of exposure	Result	Exposure duration	Species	Source
	Slightly irritating			safety data sheet

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Serious eye damage/eye irritation

Causes serious eye damage.

D-glucopyranose, C8-10 oligomers alkyl glycosides

Route of exposure	Result	Exposure duration	Species	Source
	Serious eye damage			safety data sheet

Respiratory or skin sensitisation

Based on available data, it does not meet the criteria for classification.

Germ cell mutagenicity

Based on available data, it does not meet the criteria for classification.

Carcinogenicity

Based on available data, it does not meet the criteria for classification.

Reproductive toxicity

Based on available data, it does not meet the criteria for classification.

Toxic effects on target organs - single exposure

Based on available data, it does not meet the criteria for classification.

Toxic effects on target organs - repeated exposure

Based on available data, it does not meet the classification criteria.

Aspiration hazard

Based on available data, does not meet classification criteria.

11.2. Information on other hazards

no data available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

tetrasodium edetate

Parameter	Value	Exposure duration	Species	Environment	Source
LC_{50}	>100 mg/l	96 hrs	Fish		SDS
CE_{50}	140 mg/l	48 hrs	Daphnia magna		SDS
CE_{50}	>100 mg/l	72 hrs	Algae		SDS

Chronic toxicity

tetrasodium edetate

Parameter	Method	Value	Exposure duration	Species	Environment	Determination of values	Source
NOEC	OECD 210	>25,7 mg/l	35 day	Fish		Analogous approach	SDS
NOEC		>25 mg/l	21 day	Daphnia magna			SDS

12.2. Persistence and degradability

Biodegradability

D-glucopyranose, oligomers C8-10 alkyl glycosides

Parameter	Value	Exposure duration	Environment	Result	Source
				Biodegradable	safety data sheet

Surfactants are biodegradable according to Regulation (EC) No. 648/2004 of t h e European Parliament and of the Council on detergents, as amended.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The product does not contain substances meeting the criteria for PBT or vPvB substances according to Annex XIII, Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

No data available.

SECTION 13: Waste treatment

13.1. Waste disposal methods

Danger of environmental contamination, proceed in accordance with the Act Coll. 2013, item 21 on waste and implementing regulations on waste disposal. Proceed in accordance with the applicable waste disposal regulations. Store unused product and soiled packaging in closed waste collection containers and hand over for disposal to a person authorised to dispose of waste (specialised company) authorised to carry out such activity. Do not pour unused product down the drain. Do not dispose of together with municipal waste. Empty packaging can be energetically used in a waste incinerator or collected in a landfill site with the appropriate classification. Perfectly cleaned packaging can be sent for recycling.

Waste management regulations

Act of 14 December 2012 on waste (Journal of Laws of 8 January 2013, item 21). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste. Directive 94/62/EC on packaging and packaging waste. Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10).

Waste type code

07 06 04 Other organic solvents, washing liquids and mother liquors *.

Waste type code for packaging

15 01 02 Plastic packaging

(*) - hazardous waste pursuant to Directive 2008/98/EC on hazardous waste

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SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

Not

14.6. Special precautions for user

Refer to sections 4 to 8.

14.7. Sea transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Public Health Act. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93, Commission Regulation (EC) No 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, as amended. Regulation (EC) No 694/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals. Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2020, item 2289, of 2021, item 2151). Regulation of the Minister of Health of 20 April 2012 on the labelling of packaging of hazardous substances and hazardous mixtures and certain mixtures (Journal of Laws No. , item 445). Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classification of chemical substances and their mixtures (Dz. U. nr, poz. 1018). Act of 28 May 2020 amending the Act on chemical substances and their mixtures and certain other acts (Journal of Laws 2020, item 1337) Announcement of the Marshal of the Sejm of the Republic of Poland of 1 February 2019 on the announcement of the uniform text of the Act on transport of dangerous goods (Journal of Laws 2020, item 154). Act of 23 January 2020 on amending the Act on waste and certain other acts. (Journal of Laws of 23 January 2020, item 150). Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws 2013, item 888). Regulation of the Minister of the Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

Restriction according to Annex XVII, Regulation (EC) No 1907/2006 (REACH) as amended

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of restriction
55	1. Shall not be placed on the market after 27 June 2010, for supply to the general public, as a constituent of paints, cleaners in aerosol dispensers, in concentrations equal to or greater than 3 % by mass. 2. Paints and spray cleaners in aerosol dispensers containing DEGBE not complying with point (1) shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3% by weight that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 with the words: "Do not use in paint spray equipment".

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.
D-glucopyranose, C8-10 oligomers alkyl glycosides: chemical safety assessment has been carried out by the manufacturer. 2-(2-butoxyethoxy)ethanol: chemical safety assessment was conducted by the manufacturer.
Potassium hydroxide: the manufacturer has conducted a chemical safety assessment.
Tetrasodium edetate: chemical safety assessment carried out by the manufacturer.

SECTION 16: Other information

List of hazard statements used in the safety data sheet

H290	May cause corrosion of metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Irritating to eyes.
H373	May cause damage to the respiratory tract through prolonged or repeated exposure by inhalation.

H302+H332	Harmful if swallowed or inhaled. **List of safety phrases used on**
the safety data sheet P280	Wear protective gloves/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and can be easily removed. Continue to rinse.
P310	Call a POISON CENTRE/doctor immediately.

Further information important for safety and protection of human health

The product may not - without the specific consent of the manufacturer/importer - be used for any other purpose than that stated in section 1. The user is responsible for complying with all related health regulations.

Explanation of abbreviations and acronyms used in the safety data sheet

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service
CE_{50}	Concentration of the substance at which 50% of the population is affected
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Plan
EuPCS	European Product Classification System
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods Regulations
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}.	Lethal concentration of a substance that can be expected to cause the death of 50% of the population
LD_{50}	Lethal dose of substance which can be expected to cause the death of 50 % of the population
log Kow	Octanol-water partition coefficient
VOC	Volatile organic compounds
MARPOL	International Convention for the Prevention of Pollution from Ships
PEL	Maximum permissible concentration
WELC	Maximum allowable instantaneous concentration
NDSP	Maximum allowable concentration
NOEC	Concentration causing no observable effects
OEL	Occupational exposure limit values
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration (PNEC)
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the international carriage of dangerous goods by rail
EU	European Union
UN	Four-digit identification number for a material or object, derived from the "UN Model Regulations"
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
vPvB	Very persistent and very bioaccumulative
EC	Identification code for each substance as stated in EINECS

Acute Tox.	Acute Tox.
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Met. Corr.	Substance or mixture corrosive to metals
Skin Corr.	Skin corrosive
Skin Irrit.	Skin irritant
STOT RE	Toxic effects on target organs - repeated exposure

Training instructions

Familiarise workers with the recommended manner of use, mandatory protective measures, first aid and prohibited handling.

Recommended restrictions on use

no data available

Information about the data sources used to compile the safety data sheet

Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council as amended. Data of the manufacturer of the substance/mixture - data from the registration dossier.

Changes made (which information was added, deleted or modified)

General update

Other data

Classification procedure - calculation method.

Statement

The safety data sheet contains data to ensure occupational safety and health and to protect the environment. The data given correspond to the current state of knowledge and experience and comply with the applicable laws. They cannot be regarded as a guarantee for the suitability and usability of the product for a specific application.

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