SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

POWDER FF

Creation date	27th January 2022		
Revision date	18th November 2022	Version	2.0

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

1.1. Product identifier — POWDER FF

Substance / mixture — mixture

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

Mixture's intended use

Phosphate-free powder for contactless car wash

Mixture uses advised against

not available

1.3. Details of the supplier of the safety data sheet

Manufacturer

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
Web address	bkfmyjnie.pl

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

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Eye Dam. 1, H318
STOT RE 2, H373

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Tetrasodium salt of ethylenediaminetetraacetic acid

Hazard statements

H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260	Do not breathe dust.
P280	Wear eye protection.

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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.

Supplemental information

Composition according to (EC) No 648/2004, as ammended: 5-<15 % EDTA and salts thereof, <5 % anionic surfactants, <5 % non-ionic surfactants

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 011-005-00-2 CAS: 497-19-8 EC: 207-838-8 Registration number: 01-2119485498-19-XXXX	sodium carbonate	>50	Eye Irrit. 2, H319	
Index: 607-428-00-2 CAS: 10378-23-1 EC: 200-573-9 Registration number: 01-2119486762-27-XXXX	Tetrasodium salt of ethylenediaminetetraacetic acid	<15	Acute Tox. 4, H302+H332 Eye Dam. 1, H318 STOT RE 2, H373	
CAS: 69011-36-5 Registration number: polimer	Alcohols, C13, branched, ethoxylated	<2	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 68439-45-2 Registration number: polimer	Alcohols, C6-12, ethoxylated 5-20 TE	<2	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 85586-07-8 EC: 287-809-4 Registration number: 01-2119489463-28-XXXX	Sodium lauryl sulfate	<1,5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C ≥ 20 % Eye Irrit. 2, H319: 10 % ≤ C < 20 %	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

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If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Do not rub your eyes – it could lead to mechanical damage of the cornea. Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING - even the inducted vomiting can cause complications as in case of detergents and other foaming substances.

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

If inhaled

Inhaling dust can cause corrosion of the breathing system. Cough, headache.

If on skin

Not expected.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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 spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not inhale dust. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly closed, original plastic container (low density polyethylene LDPE). 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, frost, sparks, flame and source of ignition.

Storage temperature min 5 °C, max 35 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL

Tetrasodium salt of ethylenediaminetetraacetic acid

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1.5 mg/m³	Local chronic effects		karta charakterystyki
Workers	Inhalation	3 mg/m³	Local acute effects		karta charakterystyki
Consumers	Inhalation	0.6 mg/m³	Local chronic effects		karta charakterystyki
Consumers	Inhalation	1.2 mg/m³	Local acute effects		karta charakterystyki
Consumers	Oral	25 mg/kg bw/day	Local chronic effects		karta charakterystyki

PNEC

Tetrasodium salt of ethylenediaminetetraacetic acid

Route of exposure	Value	Value determination	Source
Drinking water	2.2 mg/l		karta charakterystyki
Seawater	0.22 mg/l		karta charakterystyki
Soil (agricultural)	0.72 mg/kg of dry substance		karta charakterystyki
Water (intermittent release)	1.2 mg/l		karta charakterystyki

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	Characteristic for the materials used
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	12 (1% solution at 20 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	data not available
Relative density	0,950 g/cm3 (+-) 0,100
Form	powder

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Alcohols, C13, branched, ethoxylated

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD_{50}	>500 mg/kg		Rat (Rattus norvegicus)		karta charaktery styki

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Alcohols, C6-12, ethoxylated 5-20 TE

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD_{50}	500-2000 mg/kg		Rat (Rattus norvegicus)		karta charaktery styki

Sodium lauryl sulfate

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	ARE	1800 mg/kg		Rat		karta charaktery styki
Dermal	LD_{50}	>2000 mg/kg		Rabbit		karta charaktery styki

Tetrasodium salt of ethylenediaminetetraacetic acid

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD_{50}	1780-2000 mg/kg		Rat		karta charaktery styki
Inhalation	LOAEC	30 mg/m³		Rat	M	karta charaktery styki

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Sodium lauryl sulfate

Route of exposure	Result	Exposure time	Species	Source
	Irritating			karta charakterystyki

Tetrasodium salt of ethylenediaminetetraacetic acid

Route of exposure	Result	Exposure time	Species	Source
	Irritating			karta charakterystyki

Serious eye damage/irritation

Causes serious eye damage.

Alcohols, C13, branched, ethoxylated

Route of exposure	Result	Exposure time	Species	Source
Eye	Serious eye damage			karta charakterystyki

Alcohols, C6-12, ethoxylated 5-20 TE

Route of exposure	Result	Exposure time	Species	Source
	Serious eye damage			karta charakterystyki

Sodium lauryl sulfate

Route of exposure	Result	Exposure time	Species	Source
	Serious eye damage			karta charakterystyki

Tetrasodium salt of ethylenediaminetetraacetic acid

Route of exposure	Result	Exposure time	Species	Source
	Serious eye damage			karta charakterystyki

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Sodium lauryl sulfate

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOEL	>1125 mg/kg	Not carcinogenic	Rat		karta charakterystyki

Reproductive toxicity

Based on available data the classification criteria are not met.

Sodium lauryl sulfate

Effect	Parameter	Value	Result	Species	Sex	Source
	NOEL	250 mg/kg		Rat		karta charakterystyki

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Sodium lauryl sulfate

Parameter	Value	Exposure time	Species	Environment	Source
LC_{50}	3.6 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		karta charakterystyki
NOEC	>1.357 mg/l	42 hour	Fishes (Oncorhynchus mykiss)		karta charakterystyki
EC_{50}	4.7 mg/l	48 hour	Daphnia (Daphnia magna)		karta charakterystyki

Tetrasodium salt of ethylenediaminetetraacetic acid

Parameter	Value	Exposure time	Species	Environment	Source
EC_{50}	>60 mg/l	72 hour	Algae and other aquatic plants		karta charakterystyki

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Tetrasodium salt of ethylenediaminetetraacetic acid

Parameter	Value	Exposure time	Species	Environment	Source
NOEC	>48.4 mg/l	72 hour	Algae and other aquatic plants		karta charakterystyki
LOEC	>60.6 mg/l		Algae and other aquatic plants		karta charakterystyki
LC_{50}	41 mg/l	96 hour	Fishes		
NOEC	≥25.7 mg/l	35 day	Fishes		karta charakterystyki
EC_{50}	140 mg/l	48 hour	Crustaceans		karta charakterystyki
NOEC	25 mg/l	21 day			karta charakterystyki

12.2. Persistence and degradability

Biodegradability

Alcohols, C13, branched, ethoxylated

Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301D	79.3 %	28 day		Easily biodegradable	

Alcohols, C6-12, ethoxylated 5-20 TE

Parameter	Method	Value	Exposure time	Environment	Result	Source
		64 %	28 day		Easily biodegradable	karta charakterystyki

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

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Sodium lauryl sulfate

Parameter	Value	Environment	Temperature	Source
Koc	316-446		2°C	karta charakterystyki
Koc	1337-1567 mg/kg		2°C	karta charakterystyki

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

not available

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 03 04 inorganic wastes other than those mentioned in 16 03 03

Packaging waste type code

15 01 02 plastic packaging

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

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime 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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.

15.2. Chemical safety assessment

For mixture:
A Chemical Safety Assessment has not been carried out.
For the following substances, mixtures:
Sodium carbonate: the manufacturer has performed a chemical safety assessment
Ethylendiaminotetraacetic acid tetra-sodium salt: the manufacturer has performed a chemical safety assessment
Alcohols, C6-12, ethoxylated 5-20 TE: not applicable
Sodium lauryl sulfate: not required

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H302	Harmful if swallowed.
H315	Causes skin irritation.

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H302+H332	Harmful if swallowed or if inhaled.

Guidelines for safe handling used in the safety data sheet

P280	Wear eye 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.
P310	Immediately call a POISON CENTER/doctor.
P260	Do not breathe dust.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to 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 a substance when it is affected 50% of the population
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
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 in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
log Kow	Octanol-water partition coefficient
LZO	Volatile organic compounds
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UE	European Union
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
vPvB	Very Persistent and very Bioaccumulative
WE	Identification code for each substance listed in EINECS

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about 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 from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

General update

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

3F Mining