SAFETY DATA SHEET

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

POWDER ORANGE FF

Date of creation	05.05.2021		
Date of revision	25.11.2022	Version number	2.0

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

1.1. Product identifier — POWDER ORANGE FF

Substance/mixture — mixture

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

Phosphate-free powder for touchless car wash. It is characterised by a pleasant odour.

Uses advised against in the mixture

no data 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
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

European emergency 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.

Eye Dam. 1, H318 STOT
RE 2, H373

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. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Tetrasodium salt of ethylendiaminetetraacetic acid

Hazard statements

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

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Precautionary statements

P260	Do not breathe dust.
P280	Wear 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-<15 % EDTA (ethylenediaminetetraacetic acid) and its salts, <5 % anionic surfactants, <5 % non-ionic surfactants, fragrances, Limonene

Requirements for child-resistant closures and tactile warnings

The packaging must be fitted with a tactile warning for the blind.

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
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 ethylendiaminetetraacetic acid	<15	Acute Tox. 4, H302+H332 Eye Dam. 1, H318 STOT RE 2, H373	
CAS: 69011-36-5 Registration number: polymer	Alcohols, C13, branched, ethoxylated	<2	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 68439-45-2 Registration number: polymer	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 sulphate	<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 %	

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 of 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. Protect affected person from cold. Ensure medical attention if irritation, shortness of breath and other symptoms persist.

In case of skin contact

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

Do not rub eyes so as not to damage the cornea by mechanical injury. 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 from the inner corner to the outer corner for 10-30 minutes so that the other eye is not affected. Depending on the situation, call the emergency services 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 dust can lead to damage to the respiratory system. Coughing, headaches.

In case of contact with skin

Not expected.

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. Do not allow contaminated extinguishing agents to enter drains, surface or ground water.

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 breathe dust.

6.2. Environmental precautions

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

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6.3. Methods and material for containment and cleaning up Collect the product mechanically in a suitable manner. Dispose of collected material in accordance with local regulations.

6.4. Reference to other sections

See Sections 7., 8. and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe dust. Use the working personal protective equipment in accordance with section 8. Comply with applicable safety and health legislation.

7.2. Conditions for safe storage, including any incompatibilities

Store product only in original plastic packaging (low density polyethylene LDPE). Store product containers tightly closed in a dry room at a temperature of +5÷ 35° C with efficient ventilation, equipped with an easily washable, non-absorbent floor. Protect the product from sunlight, heat and frost. Keep away from sources of ignition and open flame.

Storage temperature min. 5 °C, max. 35 °C

7.3. Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection measures

8.1. Control parameters

The mixture does not contain substances for which occupational exposure limits have been set.

DNEL

Tetrasodium salt of ethylendiaminetetraacetic acid

Workers/consumers	Route of exposure	Value	Effects	Determination of values	Source
Employees	Inhalation	1.5 mg/m³	Chronic local effects		safety data sheet
Workers	Inhalation	3 mg/m³	Short-term local effects		safety data sheet
Consumers	Inhalation	0.6 mg/m³	Chronic local effects		safety data sheet
Consumers	Inhalation	1.2 mg/m³	Short-term local effects		safety data sheet
Consumers	Oral route	25 mg/kg/day	Chronic local effects		safety data sheet

PNEC

Tetrasodium salt of ethylendiaminetetraacetic acid

Route of exposure	Value	Determination of value	Source
Drinking water	2.2 mg/l		safety data sheet
Seawater	0.22 mg/l		safety data sheet
Soil (agricultural)	0.72 mg/kg dry weight		safety data sheet
Water (intermittent leakage)	1.2 mg/l		safety data sheet

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

Mask with dust filter if substance exposure limits are exceeded or in inadequately ventilated environment.

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	solid
Colour	white
Odour	characteristic of the aromatic composition used
Melting point/freezing point	no data
Boiling point or initial boiling point and boiling range	no data
Flammability of materials	no data available
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	12 (1% solution at 20 °C)
Kinematic viscosity	no data
Solubility in water	soluble
Partition coefficient n-octanol/water (log coefficient value)	no data available
Vapour pressure	no data available
Density or relative density	
density	no data available
Relative density	0,950 g/cm3 (+-) 0,100
Form	powder

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.

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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

Based on available data, does not meet classification criteria. Alcohols, C13, branched, ethoxylated

Route of exposure	Parameter	Value	Exposure duration	Species	Sex	Source
Oral route	LD_{50}	>500 mg/kg		Rat (Rattus norvegicus)		contact sheet

Alcohols, C6-12, ethoxylated 5-20 TE

Route of exposure	Parameter	Value	Exposure duration	Species	Sex	Source
Oral route	LD_{50}	500-2000 mg/kg		Rat (Rattus norvegicus)		contact sheet

Sodium lauryl sulphate

Route of exposure	Parameter	Value	Exposure duration	Species	Sex	Source
Oral route	ARE	1800 mg/kg		Rat		CHARACTERISTICS OF CONTAMINATION
After dermal application	LD_{50}	>2000 mg/kg		Rabbit		contact sheet

Tetrasodium salt of ethylendiaminetetraacetic acid

Route of exposure	Parameter	Value	Exposure duration	Species	Sex	Source
Oral route	LD_{50}	1780-2000 mg/kg		Rat		contact character sheet
Inhalation	LOAEC	30 mg/m³		Rat	M	character sheet contacts

Skin corrosion/irritation

Based on available data, does not meet classification criteria. Sodium lauryl sulphate

Route of exposure	Result	Exposure duration	Species	Source
	Irritant			safety data sheet

Tetrasodium salt of ethylendiaminetetraacetic acid

Route of exposure	Result	Exposure duration	Species	Source
	Irritant			safety data sheet

Serious eye damage/irritation

Causes serious eye damage. Alcohols, C13, branched, ethoxylated

Route of exposure	Result	Duration of exposure	Species	Source
Eye	Serious eye damage			safety data sheet

Alcohols, C6-12, ethoxylated 5-20 TE

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

Sodium lauryl sulphate

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

Tetrasodium salt of ethylendiaminetetraacetic acid

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.

Sodium lauryl sulphate

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral route	NOEL	>1125 mg/kg	Not carcinogenic	Rat		safety data sheet

Reproductive toxicity

Based on available data, does not meet classification criteria. Sodium lauryl sulphate

Effects	Parameter	Value	Result	Species	Sex	Source
	NOEL	250 mg/kg		Rat		safety data sheet

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

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

11.2. Information on other hazards

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

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Sodium lauryl sulphate

Parameter	Value	Exposure duration	Species	Environment	Source
LC_{50}	3.6 mg/l	96 hrs	Fish (Oncorhynchus mykiss)		safety data sheet
NOEC	>1,357 mg/l	42 hrs	Fish (Oncorhynchus mykiss)		safety data sheet
CE_{50}	4.7 mg/l	48 hrs	Daphnia magna		safety data sheet

Tetrasodium salt of ethylendiaminetetraacetic acid

Parameter	Value	Exposure duration	Species	Environment	Source
CE_{50}	>60 mg/l	72 hrs	Algae and other aquatic plants		safety data sheet
NOEC	>48.4 mg/l	72 hrs	Algae and other aquatic plants		safety data sheet
LOEC	>60,6 mg/l		Algae and other aquatic plants		safety data sheet
LC_{50}	41 mg/l	96 hrs	Fish		
NOEC	≥25.7 mg/l	35 day	Fish		safety data sheet
CE_{50}	140 mg/l	48 hrs	Crustaceans		safety data sheet
NOEC	25 mg/l	21 day			safety data sheet

12.2. Persistence and degradability

Biodegradability

Alcohols, C13, branched, ethoxylated

Parameter	Method	Value	Exposure duration	Environment	Result	Source
	OECD 301D	79,3 %	28 day		Readily biodegradable	

Alcohols, C6-12, ethoxylated 5-20 TE

Parameter	Method	Value	Exposure duration	Environment	Result	Source
		64 %	28 day		Readily biodegradable	character sheet contacts

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

Sodium lauryl sulphate

Parameter	Value	Environment	Temperature	Source
Blanket	316-446		2°C	data sheet
Blanket	1337-1567 mg/kg		2°C	safety data sheet

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 endocrine disrupting properties in accordance with the criteria set out in 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. Regulation of the Minister of Climate of 2 January 2020 on the catalogue of waste (Journal of Laws 2020, item 10). Directive 94/62/EC on packaging and packaging waste.

Waste type code

16 03 04 Inorganic wastes other than those mentioned in 16 03 03, 16 03 80

Waste type code for packaging

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

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.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.
For the following substances of the mixture:
Sodium carbonate: a chemical safety assessment has been carried out by the manufacturer.
Ethylendiaminetetraacetic acid tetrasodium salt: a chemical safety assessment has been carried out by the manufacturer
Alcohols, C6-12, ethoxylated 5-20 TE: not applicable
Sodium lauryl sulphate: not required

SECTION 16: Other information

List of hazard statements used in the safety data sheet

H302	Harmful if swallowed.
H315	Irritating to skin.
H318	Causes serious eye damage.
H319	Irritating to eyes.
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 inhaled. **List of safety phrases 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 can be easily removed. Continue to rinse.
P310	Call a POISON CENTRE/doctor immediately.
P260	Do not breathe dust.

Further information important for safety and protection of human health

The product must 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
LOAEC	Lowest concentration causing an adverse effect
log Kow	Octanol-water partition coefficient
VOCS	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
NOEL	No observed effect level
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.
Aquatic Chronic	Hazardous to the aquatic environment (chronic) Eye Dam.
	Serious eye damage
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
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 legal provisions. They cannot be regarded as a guarantee for the suitability and usability of the product for a specific application.

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