acc. to 29 CFR 1910.1200 App D

# **Protek Eco Orange**

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## **SECTION 1: Identification**

#### 1.1 Product identifier

Trade name Protek Eco Orange

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

Relevant identified uses All-purpose cleaner

### 1.3 Details of the supplier of the safety data sheet

Pro-Tek Chemical 487 W. 1st Avenue P.O. Box 1057 Glenns Ferry ID 83623 1-888-776-8351

protek@protekchemical.com

## 1.4 Emergency telephone number

Emergency information service USA 1.80

USA 1.800.535.5053, INTL 1.352.323.3500 24 hour emergency number

## SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard state- ment
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects Delayed or immediate effects can be expected after short or long-term exposure.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word warning

- Pictograms

GHS07, GHS08



- Hazard statements

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

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- Precautionary statements

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

EDTA, anhydrous, Orange oil, sweet

#### 2.3 Other hazards

Hazards not otherwise classified

Contains Orange oil, sweet. May produce an allergic reaction.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
proprietary nonionic surfactant blend		3-<12	Skin Irrit. 2 / H315 Eye Irrit. 2A / H319
EDTA, anhydrous	CAS No 64-02-8	1-<3	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Dam. 1 / H318 STOT RE 2 / H373
sodium metasilicate, anhydrous	CAS No 6834-92-0	1-<3	Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 Met. Corr. 1 / H290
Orange oil, sweet	CAS No 8008-57-9	0.1 - < 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226

For full text of abbreviations: see SECTION 16.

## **SECTION 4: First-aid measures**

## 4.1 Description of first- aid measures

## General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

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#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation Use local and general ventilation. Use only in well-ventilated areas.
- Handling of incompatible substances or mixtures Do not mix with acids.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

Control of the effects

Protect against external exposure, such as

#### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

This information is not available.

## Relevant DNELs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
EDTA, anhydrous	64-02-8	DNEL	1.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local ef- fects
EDTA, anhydrous	64-02-8	DNEL	1.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local ef- fects
sodium metasilicate, anhydrous	6834-92-0	DNEL	6.22 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
sodium metasilicate, anhydrous	6834-92-0	DNEL	1.49 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Orange oil, sweet	8008-57-9	DNEL	8.89 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Orange oil, sweet	8008-57-9	DNEL	31.1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

#### Relevant PNECs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
EDTA, anhydrous	64-02-8	PNEC	2.2 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
EDTA, anhydrous	64-02-8	PNEC	43 <sup>mg</sup> / <sub>l</sub>	microorganisms	sewage treatment plant (STP)	short-term (single instance)

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## Relevant PNECs of components of the mixture

	<u>'</u>					
Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
EDTA, anhydrous	64-02-8	PNEC	0.72 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)
EDTA, anhydrous	64-02-8	PNEC	1.2 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent re- lease
EDTA, anhydrous	64-02-8	PNEC	0.22 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
Orange oil, sweet	8008-57-9	PNEC	5.4 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Orange oil, sweet	8008-57-9	PNEC	0.54 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
Orange oil, sweet	8008-57-9	PNEC	2.1 <sup>mg</sup> / <sub>I</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Orange oil, sweet	8008-57-9	PNEC	1.3 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Orange oil, sweet	8008-57-9	PNEC	0.13 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Orange oil, sweet	8008-57-9	PNEC	44.44 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	water	short-term (single instance)
Orange oil, sweet	8008-57-9	PNEC	0.261 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)
Orange oil, sweet	8008-57-9	PNEC	5.77 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent re- lease

## 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

## **Appearance**

Physical state	liquid
Color	orange
Odor	citrus

# Other safety parameters

pH (value)	12-12.4 (25 °C) (base)
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	not determined closed cup
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	31.69 hPa at 25 °C
Density	not determined
Vapor density	this information is not available
Relative density	information on this property is not available

# Solubility(ies)

- Water solubility	miscible in any proportion
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## Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

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#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

Oxidizers

Release of flammable materials with:

Light metals (due to the release of hydrogen in an acid/alkaline medium)

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

#### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
EDTA, anhydrous	64-02-8	oral	1,913 <sup>mg</sup> / <sub>kg</sub>
EDTA, anhydrous	64-02-8	inhalation: dust/mist	1.5 <sup>mg</sup> / <sub>l</sub> /4h
sodium metasilicate, anhydrous	6834-92-0	oral	1,349 <sup>mg</sup> / <sub>kg</sub>
sodium metasilicate, anhydrous	6834-92-0	inhalation: vapor	2.06 <sup>mg</sup> / <sub>l</sub> /4h
sodium metasilicate, anhydrous	6834-92-0	inhalation: dust/mist	0.5 <sup>mg</sup> / <sub>l</sub> /4h

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

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#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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## **SECTION 14: Transport information**

**14.1 UN number** not subject to transport regulations

**14.2 UN proper shipping name** not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not relevant

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous

goods regulations

14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

## Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT)

Not subject to transport regulations.

**International Maritime Dangerous Goods Code (IMDG)** 

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question National regulations (United States)

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313) none of the ingredients are listed

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4) none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

# California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

## Industry or sector specific available guidance(s)

#### **NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

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> Category Rating Description Chronic chronic (long-term) health effects may result from repeated overexposure Health 2 temporary or minor injury may occur Flammability 1 material that must be preheated before ignition can occur Physical hazard 0 material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive Personal protection

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#### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# SECTION 16: Other information, including date of preparation or last revision

## Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)	yes
2.2		- Pictograms: change in the listing (table)	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: EDTA, anhydrous	<ul> <li>Hazardous ingredients for labelling: EDTA, anhydrous, Orange oil, sweet</li> </ul>	yes
2.3		Hazards not otherwise classified	yes
2.3		Hazards not otherwise classified: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
8.1	Control parameters: These information are not available.	Control parameters: This information is not available.	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
9.1	Flash point: not determined	Flash point: not determined closed cup	yes
11.1	Respiratory or skin sensitization: Shall not be classified as a respiratory or skin sensitizer.	Respiratory or skin sensitization: May cause an allergic skin reaction.	yes
15.1	New Jersey Worker and Community Right to Know Act: none of the ingredients are listed		yes
15.1		NPCA-HMIS® III: change in the listing (table)	yes
15.1		NFPA® 704: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)	yes

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations			
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation			
Acute Tox.	Acute toxicity			
Asp. Tox.	Aspiration hazard			
ATE	Acute Toxicity Estimate			
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)			
DGR	Dangerous Goods Regulations (see IATA/DGR)			
DNEL	Derived No-Effect Level			
Eye Dam.	Seriously damaging to the eye			
Eye Irrit.	Irritant to the eye			
Flam. Liq.	Flammable liquid			
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations			
IATA	International Air Transport Association			
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)			
ICAO	International Civil Aviation Organization			
IMDG	International Maritime Dangerous Goods Code			
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")			
Met. Corr.	Substance or mixture corrosive to metals			
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition			
OSHA	Occupational Safety and Health Administration (United States)			
PBT	Persistent, Bioaccumulative and Toxic			
PNEC	Predicted No-Effect Concentration			
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)			
Skin Corr.	Corrosive to skin			

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Abbr.	Descriptions of used abbreviations
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
vPvB	Very Persistent and very Bioaccumulative

## Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H226	Flammable liquid and vapor.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

## **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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