

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 22.04.2021

Version: 2

Revision: 22.04.2021

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

- **1.1 Product identifier**
- **Trade name:** **BIG ORANGE EVO**
- **Article number:** 96490001
- **UFI:** P4E0-D044-V00M-V9RF
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Process category** PROC11 Non industrial spraying
- **Application of the substance / the mixture** Degreaser
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 ZEP ITALIA SRL  
 Piazzale Luigi Cadorna, 2  
 20123 Milano (MI) - Italy;  
 Via Nettunense Km. 25.000  
 04011 Aprilia (LT) - Italy  
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 Sito: www.zep.it  
  
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- **Further information obtainable from:**  
 Customer Service  
 NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395  
 IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61  
 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011
- **1.4 Emergency telephone number:** NHS +44 0845 46 47 (England or Wales); +44 08454 24 24 24 (Scotland)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS02

GHS05

GHS07

GHS09

· **Signal word** Danger· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

· **2.3 Other hazards** The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-029-00-7 Reg.nr.: 01-2119529223-47-xxxx	(R)-p-mentha-1,8-diene	25-50%
	⚠ Flam. Liq. 3, H226	
	⚠ Asp. Tox. 1, H304	
	⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane	10-25%
	⚠ Flam. Gas 1A, H220	
	Press. Gas (Comp.), H280	
CAS: 100-79-8 EINECS: 202-888-7 Reg.nr.: 01-2120066005-66-xxxx	2,2-dimethyl-1,3-dioxolan-4-ylmethanol	10-25%
	⚠ Eye Irrit. 2, H319	
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane	5-10%
	⚠ Flam. Gas 1A, H220	
	Press. Gas (Comp.), H280	
CAS: 68551-13-3 EC number: 614-582-4 Reg.nr.: Polymer	Alcohols, C12 - C15, ethoxylated propoxylated	≥3-<5%
	⚠ Eye Dam. 1, H318	
	⚠ Aquatic Acute 1, H400	
CAS: 68951-67-7 Polymer	Alcohols, C14-15, ethoxylated	≥3-<5%
	⚠ Eye Dam. 1, H318	
	⚠ Aquatic Acute 1, H400	
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60-xxxx	1-(2-Methoxypropoxy)-2-propanol substance with a Community workplace exposure limit	2.5-5%

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CAS: 25307-17-9 EINECS: 246-807-3 Reg.nr.: 01-2119510876-35-xxxx	2,2'-(9-octadecenylimino)bisethanol  Skin Corr. 1B, H314  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1)  Acute Tox. 4, H302	≥2.5- <5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	and isobutane  Flam. Gas 1A, H220 Press. Gas (Comp.), H280	2.5-5%

**Additional information:**

For the wording of the listed hazard phrases refer to section 16.

Aliphatic hydrocarbons	≥30%
Nonionic surfactants	≥5 - <15%
Perfumes (LIMONENE)	

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:** Immediately remove any clothing soiled by the product.**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

**After swallowing:**

Do not induce vomiting; call for medical help immediately.

Seek immediate medical advice.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**5.2 Special hazards arising from the substance or mixture** No further relevant information available.**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Remove persons from danger area.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

**6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Keep contaminated washing water and dispose of appropriately.

**6.3 Methods and material for containment and cleaning up:**

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.

#### · Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect from heat.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

#### · 7.2 Conditions for safe storage, including any incompatibilities

##### · Storage:

##### · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

##### · Information about storage in one common storage facility: Not required.

##### · Further information about storage conditions:

Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.

#### · 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

#### · Additional information about design of technical facilities: No further data; see item 7.

#### · Ingredients with limit values that require monitoring at the workplace:

**CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol**

IOELV	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm
	Skin

#### · DNELs

**CAS: 5989-27-5 (R)-p-mentha-1,8-diene**

Oral	DNEL Long term-systemic	4.8 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	4.8 mg/kg human/day (consumer)
		9.5 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m <sup>3</sup>	16.6 mg/m <sup>3</sup> (consumer)
		66.7 mg/m <sup>3</sup> (worker)

**CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol**

Oral	DNEL Long term-systemic	1.67 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	15 mg/kg human/day (consumer)
		65 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m <sup>3</sup>	37.2 mg/m <sup>3</sup> (consumer)
		310 mg/m <sup>3</sup> (worker)

#### · PNECs

**CAS: 5989-27-5 (R)-p-mentha-1,8-diene**

PNEC Freshwater mg/L	14 mg/L
PNEC Marinewater µg/L	1.4 µg/L
PNEC Freshwater sediment	3.85 mg/Kg
PNEC Marine water sediment	3.85 mg/Kg
PNEC Sewage treatment Plant mg/L	1.8 mg/L

**CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol**

PNEC Freshwater mg/L	19 mg/L
PNEC Marinewater mg/L	1.9 mg/L
PNEC Freshwater sediment	70.2 mg/Kg
PNEC Marine water sediment	7.02 mg/Kg

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PNEC Intermittent release	190
PNEC Soil	2.74 mg/Kg
PNEC Sewage treatment Plant mg/L	4,168 mg/L

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Do not eat, drink, smoke or sniff while working.

· **Respiratory protection:** Filter A

· **Protection of hands:**



Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Not suitable are gloves made of the following materials:** Strong material gloves

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Aerosol

Colour: Light yellow

· **Odour:** Citrus

· **Odour threshold:** Not determined.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: >80 °C

· **Flash point:** <0 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 255 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower: 0.7 g/m<sup>3</sup>

Upper: 6.1 g/m<sup>3</sup>

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· Vapour pressure at 20 °C:	2.3 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	72.7 %
Swiss VOC:	72.71 %
Solids content:	0.0 %
· 9.2 Other information	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### CAS: 5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50	4,400 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rat)
		>2,000 mg/kg (Rabbit)
	EC50	34.1 mg/ltr (Daphnia magna (water flea))

##### CAS: 68551-13-3 Alcohols, C12 - C15, ethoxylated propoxylated

Oral	LD50	>2,000 mg/kg (Rat)
------	------	--------------------

##### CAS: 68951-67-7 Alcohols, C14-15, ethoxylated

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

##### CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol

Oral	LD50	>4,000 mg/kg (Rat)
Dermal	LD50	9,510 mg/kg (Rabbit)
	LC50 / 48 h	1.919 mg/ltr (Daphnia magna (water flea))

##### CAS: 25307-17-9 2,2'-(9-octadecenylimino)bisethanol

Oral	LD50	1,260 mg/kg (Rat)
------	------	-------------------

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.

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- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · **Aquatic toxicity:**

##### **CAS: 5989-27-5 (R)-p-mentha-1,8-diene**

LC50 / 96 h	0.72 mg/ltr (fish)
EC 50 / 72 H	0.688 /mg/L (Selenastrum capricornutum (Algae))
OECD test 301 D	>92 (biodegradation in % after 28 days)

##### **CAS: 68551-13-3 Alcohols, C12 - C15, ethoxylated propoxylated**

LC50 / 96 h	0.1-1 mg/ltr (fish)
EC 50 / 48 h	0.1-1 mg/ltr (Daphnia magna (water flea))

##### **CAS: 68951-67-7 Alcohols, C14-15, ethoxylated**

LC50 / 96 h	<1 mg/ltr (fish)
EC 50 / 48 h	<1 mg/ltr (Daphnia magna (water flea))
EC 50 / 72 H	<1 (Selenastrum capricornutum (Algae))

##### **CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol**

LC50 / 96 h	>10,000 mg/ltr (Pimephales promelas)
EC 50 / 72 H	1,000 (Selenastrum capricornutum (Algae))

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP13	Sensitising
HP14	Ecotoxic

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- **Uncleaned packaging:**
- **Recommendation:** Disposal in accordance with administrative provisions

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA**

UN1950

- **14.2 UN proper shipping name**

- **ADR**
- **IMDG**
- **IATA**

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS  
AEROSOLS ((R)-p-mentha-1,8-diene, Alcohols, C12 - C15,  
ethoxylated propoxylated), MARINE POLLUTANT  
AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class**
- **Label**

2 5F Gases.  
2.1

- **IMDG**



- **Class**
- **Label**

2.1  
2.1

- **IATA**



- **Class**
- **Label**

2.1  
2.1

- **14.4 Packing group**

- **ADR, IMDG, IATA**

Void

- **14.5 Environmental hazards:**

Product contains environmentally hazardous substances: (R)-p-mentha-1,8-diene

- **Marine pollutant:**

Symbol (fish and tree)

- **Special marking (ADR):**

Symbol (fish and tree)

- **14.6 Special precautions for user**

Warning: Gases.

- **Hazard identification number (Kemler code):**

-

- **EMS Number:**

F-D,S-U

- **Segregation groups**

Alkalies

- **Stowage Code**

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre:

Category A. For AEROSOLS with a capacity above 1 litre:

Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

- **Segregation Code**

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EU

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· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **Transport category**

2

· **Tunnel restriction code**

D

· **IMDG**

· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

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

Reg. (EC) n. 1223/2009 (Cosmetics);

Reg. (EC) n. 1272/2008 - CLP;

Reg. (EC) n. 2015/830 annex II of REACH;

Dir. 06/08 ADR – RID - IMDG - IATA;

Dir. 12/18 (Seveso III);

Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02



GHS05



GHS07



GHS09

· **Signal word** Danger

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E1 Hazardous to the Aquatic Environment

P3a FLAMMABLE AEROSOLS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
NK	72.7

· **Waterhazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H220 Extremely flammable gas.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008** Calculation method

· **Department issuing SDS:**

Customer Service

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· **Contact:**

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NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

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UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

WELL: The highest acceptable concentration

IOELV: Indicative occupational exposure limit values

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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***Safety data sheet***  
***according to 1907/2006/EC, Article 31***

*Printing date 22.04.2021*

*Version: 2*

*Revision: 22.04.2021*

***Trade name: BIG ORANGE EVO***

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

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EU

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 22.04.2021

Version: 2

Revision: 22.04.2021

Trade name: **BIG ORANGE EVO**

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### Annex: Exposure scenario

- **Short title of the exposure scenario**
- **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Process category** PROC11 Non industrial spraying
- **Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Aerosol
- **Concentration of the substance in the mixture** The substance is main component.
- **Used amount per time or activity** According to directions for use.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** Use only on hard ground.
- **Other operational conditions affecting worker exposure**  
 Avoid contact with eyes.  
 Avoid contact with the skin.  
 Avoid long-term or repeated skin contact.  
 Take precautionary measures against static discharge.  
 Keep away from sources of ignition - No smoking.
- **Other operational conditions affecting consumer exposure** No special measures required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures**  
 Provide explosion-proof electrical equipment.  
 Use product only in enclosed systems.  
 Ensure that suitable extractors are available on processing machines
- **Personal protective measures**  
 Avoid contact with the skin.  
 Avoid contact with the eyes.  
 Tightly sealed goggles  
 Protective gloves
- **Measures for consumer protection** Ensure adequate labelling.
- **Environmental protection measures**
- **Water**  
 Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.  
 Do not allow to reach sewage system.
- **Soil** Prevent contamination of soil.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.