

WC BLOCKS MULTICOLOR FLORAL - DRAFT 499336.1

**APPROVED**  
By Abigail Almond at 2:53 pm, Nov 16, 2023

## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : WC BLOCKS MULTICOLOR FLORAL

Product code : DRAFT 499336.1.

Zoflora Rim Blocks  
Midnight Bloom  
SDS/1660/1

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

Detergents WC - No specific use outside the identified use for cleaning WC bowls

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

Registered company name : ZOFLORA.

Address : ....

Telephone : . Fax : .

#### 1.4. Emergency telephone number : .

Association/Organisation : .

Not available

#### Other emergency numbers

UK: Medical Helpline – NHS, phone : 111; Australia: NSW Poisons Information Centre The Children's Hospital at Westmead Locked Bag 4001 Westmead, NSW 2145 Australia : 13 11 26; Nicols (9:00-17:00) : +32 67875101

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

May produce an allergic reaction (EUH208).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. Label elements

Detergent mixture (see section 15).

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05

Signal Word :

DANGER

Product identifiers :

EC 931-534-0 SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE)

EC 270-115-0 BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE)

Additional labeling :

EUH208 Contains 4-TERT-BUTYLCYCLOHEXYL ACETATE

EUH208

. May produce an allergic reaction.  
Contains LINALOOL: 3,7-DIMETHYL-1,6-OCTADIEN-3-OL; DL-LINALOOL (LINALOOL). May produce an allergic reaction.

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EUH208 Contains GERANIOL; (2E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-OL (GERANIOL). May produce an allergic reaction.

## Hazard statements :

H315 Causes skin irritation.  
H318 Causes serious eye damage.

## Precautionary statements - General :

P102 Keep out of reach of children.

## Precautionary statements - Prevention :

P264 Wash hands thoroughly after handling.

## Precautionary statements - Response :

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq$  0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq$  0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

Do not ingest.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

## Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 68439-57-6 EC: 931-534-0 REACH: 01-2119513401-57  SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE)	GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318		10 $\leq$ x % < 25
CAS: 68411-30-3 EC: 270-115-0 REACH: 01-2119489428-22  BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE)	GHS07, GHS05 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		2.5 $\leq$ x % < 10
CAS: 15763-76-5 EC: 239-854-6 REACH: 01-2119489411-37  SODIUM P-CUMENE SULPHONATE	GHS07 Wng Eye Irrit. 2, H319		2.5 $\leq$ x % < 10
CAS: 32210-23-4 EC: 250-954-9 REACH: 01-2119976286-24  4-TERT-BUTYLCYCLOHEXYL ACETATE	GHS07 Wng Skin Sens. 1B, H317		0 $\leq$ x % < 1
CAS: 140-11-4 EC: 205-399-7 REACH: 01-2119638272-42  BENZYL ACETATE	Aquatic Chronic 3, H412	[1]	0 $\leq$ x % < 1

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CAS: 120-51-4 EC: 204-402-9 REACH: 01-2119976371-33  BENZYL BENZOATE	GHS07, GHS09 Wng Acute Tox. 4, H302 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		0 <= x % < 1
CAS: 78-70-6 EC: 201-134-4 REACH: 01-2119474016-42  LINALOOL: 3,7-DIMETHYL-1,6-OCTADIEN-3-OL; DL-LINALOOL (LINALOOL)	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		0 <= x % < 1
CAS: 106-24-1 EC: 203-377-1 REACH: 01-2119552430-49  GERANIOL; (2E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-OL (GERANIOL)	GHS07, GHS05 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318		0 <= x % < 1
CAS: 101-84-8 EC: 202-981-2 REACH: 01-2119472545-33  DIPHENYL ETHER	GHS07, GHS09 Wng Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Aquatic Acute 1, H400 M Acute = 1	[1]	0 <= x % < 1
INDEX: 605-019-00-3 CAS: 5392-40-5 EC: 226-394-6  CITRAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]	0 <= x % < 1
INDEX: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38  BENZYL ALCOHOL (BENZYL ALCOHOL)	GHS07 Wng Acute Tox. 4, H332 Acute Tox. 4, H302	[1]	0 <= x % < 1
CAS: 532-32-1 EC: 208-534-8  SODIUM BENZOATE	GHS07 Wng Eye Irrit. 2, H319	[1]	0 <= x % < 1

**Specific concentration limits:**

Identification	Specific concentration limits	ATE
CAS: 68439-57-6 EC: 931-534-0 REACH: 01-2119513401-57  SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE)	Skin Irrit. 2: H315 >=5% Eye Dam. 1: H318 C>= 38% Eye Irrit. 2: H319 5% <= C < 38%	inhalation: ATE = 0.052 mg/l (dust/mist) dermal: ATE = 6300 mg/kg BW oral: ATE = 2079 mg/kg BW
CAS: 68411-30-3 EC: 270-115-0 REACH: 01-2119489428-22  BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE)		oral: ATE = 404 mg/kg BW
CAS: 532-32-1 EC: 208-534-8  SODIUM BENZOATE		oral: ATE = 3450 mg/kg BW

**Information on ingredients :**

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

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**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures**

**In the event of exposure by inhalation :**

In the event of an allergic reaction, seek medical attention.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

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

No acute effects have been identified other than any that may be mentioned in section 2.

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

In case of accident or unwellness, seek medical advice immediately and see section 4.1 for first aid measures.

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**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- carbon dioxide (CO<sub>2</sub>)
- powder
- foam

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus and with standard protective clothes to fight chemical fire.

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**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

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**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Prevent any material from entering drains or waterways.

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

Retrieve the product by mechanical means (sweeping/vacuuming).

**6.4. Reference to other sections**

See section 8 and 13.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in a cool place

**Storage**

Keep out of reach of children.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

Detergents WC - No specific use outside the identified use for cleaning WC bowls : see section 1.2

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits :**

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
101-84-8	7	1	14	2	-

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
140-11-4	10 ppm			A4	
101-84-8	1 ppm	2 ppm			
5392-40-5	5 (IFV) ppm			Skin; SEN; A4	

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
101-84-8		1 ppm 7.1 mg/m <sup>3</sup>		1(I)
100-51-6		5 ppm 22 mg/m <sup>3</sup>		2 (I)
532-32-1		10 E mg/m <sup>3</sup>		2 (II)

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

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CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
101-84-8	1	7	2	14	-	-

- Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
101-84-8	1 ppm 7 mg/m <sup>3</sup>	2 ppm 14 mg/m <sup>3</sup>		
100-51-6	5 ppm 22 mg/m <sup>3</sup>			

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
101-84-8	1 ppm 7 mg/m <sup>3</sup>	2 ppm 14 mg/m <sup>3</sup>			

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

SODIUM P-CUMENE SULPHONATE (CAS: 15763-76-5)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
7.6 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
53.6 mg of substance/m<sup>3</sup>

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Dermal contact.  
Long term systemic effects.  
3.8 mg/kg body weight/day

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
170 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
12 mg of substance/m<sup>3</sup>

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
0.85 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
85 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
3 mg of substance/m<sup>3</sup>

SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE) (CAS: 68439-57-6)

**Final use:**

Exposure method:  
Potential health effects:

**Workers.**

Dermal contact.  
Long term systemic effects.

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DNEL : 2158.33 mg/kg body weight/day

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 15.22 mg of substance/m3

**Final use:**

Exposure method: Ingestion.  
Potential health effects: Long term systemic effects.  
DNEL : 12.95 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term systemic effects.  
DNEL : 1295 mg/kg body weight/day

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 45.04 mg of substance/m3

**Consumers.****Predicted no effect concentration (PNEC):**

SODIUM P-CUMENE SULPHONATE (CAS: 15763-76-5)

Environmental compartment: Fresh water.  
PNEC : 0.23 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 2.3 mg/l

Environmental compartment: Waste water treatment plant.  
PNEC : 100 mg/l

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

Environmental compartment: Fresh water.  
PNEC : 0.268

Environmental compartment: Sea water.  
PNEC : 0.0268

Environmental compartment: Intermittent waste water.  
PNEC : 0.0167

Environmental compartment: Fresh water sediment.  
PNEC : 8.1

Environmental compartment: Waste water treatment plant.  
PNEC : 3.43

SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE) (CAS: 68439-57-6)

Environmental compartment: Soil.  
PNEC : 1.21 mg/kg

Environmental compartment: Fresh water.  
PNEC : 0.024 mg/l

Environmental compartment: Sea water.

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PNEC :	0.002 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.02 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.767 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.077 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 4 mg/l

**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Prescription glasses are not considered as protection.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

Wear protective clothing against solid chemicals and particles suspended in the air (type 5) in accordance with standard EN13982-1/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Avoid inhaling dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149/A1.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****Physical state**

Physical state : Solid.

**Colour**

Color: Purple/Pink

**Odour**

Odour threshold : Not relevant.

Odour: Characteristic



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**Melting point**

Melting point/melting range : 165.2°C / 166.2°C  
Method for determining the melting point :  
Method A.1 (Melting/Freezing temperature) as described in Part A of the Annex to Regulation (EC)No 440/2008  
ASTM E 537-76 (Standard method for assessing the thermal stability of chemicals by methods of differential thermal analysis).

**Freezing point**

Freezing point / Freezing range : Not relevant.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

**Flammability**

Flammability (solid, gas) : Not relevant.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not relevant.

Explosive properties, upper explosivity limit (%) : Not relevant.

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**pH**

pH : Not relevant.

pH (aqueous solution) : 6.0 / 11.0 @1%

**Kinematic viscosity**

Viscosity : Not relevant.

**Solubility**

Water solubility : Soluble.

Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not relevant.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : 1.55 / 1.75

**Relative vapour density**

Vapour density : Not relevant.

**Particle characteristics**

Particle size : Not relevant.

**9.2. Other information**

No additional data available

**9.2.1. Information with regard to physical hazard classes**

No additional data available

**9.2.2. Other safety characteristics**

No additional data available

**SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

Mixture not reactive in normal conditions of storage and use.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

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**10.3. Possibility of hazardous reactions**

No incompatible dangerous reactions known.

**10.4. Conditions to avoid**

Avoid :

- formation of dusts

Dusts can form an explosive mixture with air.

Avoid the heating of the mixture.

**10.5. Incompatible materials**

No incompatible raw materials identified.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

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

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

**11.1.1. Substances**

**Acute toxicity :**

SODIUM BENZOATE (CAS: 532-32-1)

Oral route : LD50 = 3450 mg/kg bodyweight/day

SODIUM P-CUMENE SULPHONATE (CAS: 15763-76-5)

Oral route : LD50 > 7000 mg/kg bodyweight/day  
Species : Rat

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

Oral route : LD50 = 404 mg/kg bodyweight/day  
Species : Rat

SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE) (CAS: 68439-57-6)

Oral route : LD50 = 2079 mg/kg bodyweight/day  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 = 6300 mg/kg bodyweight/day  
Species : Rabbit  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 = 0.052 mg/m<sup>3</sup>  
Species : Rat  
OECD Guideline 403 (Acute Inhalation Toxicity)

**Skin corrosion/skin irritation :**

No data available.

**Serious damage to eyes/eye irritation :**

No data available.

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**Respiratory or skin sensitisation :**

No data available.

**Germ cell mutagenicity :**

LINALOOL: 3,7-DIMETHYL-1,6-OCTADIEN-3-OL; DL-LINALOOL (LINALOOL) (CAS: 78-70-6)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.

Species : Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.

With or without metabolic activation.

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

No mutagenic effect.

**Carcinogenicity :**

SODIUM P-CUMENE SULPHONATE (CAS: 15763-76-5)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

Species : Rat

OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

**Reproductive toxicant :**

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

No toxic effect for reproduction

**Specific target organ systemic toxicity - single exposure :**

No data available.

**Specific target organ systemic toxicity - repeated exposure :**

LINALOOL: 3,7-DIMETHYL-1,6-OCTADIEN-3-OL; DL-LINALOOL (LINALOOL) (CAS: 78-70-6)

Oral route :

C >= 497.9 mg/kg bodyweight/day

Species : Rat

Duration of exposure : 90 days

OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Dermal route :

C = 250 mg/kg bodyweight/day

Species : Rat

Duration of exposure : 90 days

OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

SODIUM P-CUMENE SULPHONATE (CAS: 15763-76-5)

Oral route :

C < 3534 mg/kg bodyweight/day

Species : Rat

Duration of exposure : 90 days

OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

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Dermal route : C > 440 mg/kg bodyweight/day  
Duration of exposure : 90 days

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

Oral route : C = 125 mg/kg bodyweight/day  
Species : Rat  
Duration of exposure : 28 days

**Aspiration hazard :**

No data available.

**11.1.2. Mixture**

**Acute toxicity :**

Not relevant

**Skin corrosion/skin irritation :**

Not relevant

**Serious damage to eyes/eye irritation :**

Not relevant

**Respiratory or skin sensitisation :**

Contains at least one sensitising substance. May cause an allergic reaction.

**Germ cell mutagenicity :**

Not relevant

**Carcinogenicity :**

Not relevant

**Reproductive toxicant :**

Not relevant

**Specific target organ systemic toxicity - single exposure :**

Not relevant

**Specific target organ systemic toxicity - repeated exposure :**

Not relevant

**Aspiration hazard :**

Not relevant

**Information on likely routes of exposure**

Not relevant.

**Symptoms related to the physical, chemical and toxicological characteristics**

Not relevant.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Not relevant.

**Interactive effects**

Not relevant.

**Absence of specific data**

Not relevant.

**Mixtures**

Not relevant.

**Mixture versus substance information**

Not relevant.

**11.2. Information on other hazards**

See section 2.3

**Endocrine disrupting properties**

See section 2.3

**Other information**

See section 2.3

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**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 91-64-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 140-11-4 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.1. Substances**

LINALOOL: 3,7-DIMETHYL-1,6-OCTADIEN-3-OL; DL-LINALOOL (LINALOOL) (CAS: 78-70-6)

Algae toxicity : Other guideline

Species : *Desmodesmus subspicatus*

Other guideline

4-TERT-BUTYLCYCLOHEXYL ACETATE (CAS: 32210-23-4)

Fish toxicity : NOEC > 1 mg/l

SODIUM P-CUMENE SULPHONATE (CAS: 15763-76-5)

Fish toxicity :

Crustacean toxicity :

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

Fish toxicity : LC50 = 1.67 mg/l  
Species : *Lepomis macrochirus*  
Duration of exposure : 96 h

NOEC = 0.23 mg/l

Crustacean toxicity : EC50 = 2.9 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 48 h

Algae toxicity : NOEC > 1 mg/l

SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE) (CAS: 68439-57-6)

Fish toxicity : LC50 = 4.2 mg/l  
Species : *Danio rerio*  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 4.53 mg/l  
Species : *Ceriodaphnia dubia*  
Duration of exposure : 48 h

NOEC = 2.42 mg/l  
Species : *Daphnia magna*  
Duration of exposure : 21 days

Algae toxicity : ECr50 = 1.97 mg/l  
Species : *Skeletonema costatum*  
Duration of exposure : 72 h

NOEC = 1.2 mg/l

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**12.1.2. Mixtures**

No test performed on the mixture

**12.2. Persistence and degradability**

The surfactants contained in the product correspond to the direction on the environmental compatibility of detergents and are biodegradable.

**12.2.1. Substances**

DIPHENYL ETHER (CAS: 101-84-8)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

LINALOOL: 3,7-DIMETHYL-1,6-OCTADIEN-3-OL; DL-LINALOOL (LINALOOL) (CAS: 78-70-6)

Biodegradability : Rapidly degradable.

BENZYL BENZOATE (CAS: 120-51-4)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

4-TERT-BUTYLCYCLOHEXYL ACETATE (CAS: 32210-23-4)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

SODIUM P-CUMENE SULPHONATE (CAS: 15763-76-5)

Biodegradability : Rapidly degradable.

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

Biodegradability : Rapidly degradable.

SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE) (CAS: 68439-57-6)

Biodegradability : Rapidly degradable.

**12.2.2. Mixtures**

No test performed on the mixture

**12.3. Bioaccumulative potential**

**12.3.1. Substances**

SODIUM P-CUMENE SULPHONATE (CAS: 15763-76-5)

Octanol/water partition coefficient : log K<sub>ow</sub> = -1.1

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS ( SODIUM C10-13 ALKYL BENZENESULFONATE) (CAS: 68411-30-3)

Octanol/water partition coefficient : log K<sub>ow</sub> = 3.32

SULFONIC ACIDS, C14-16-ALKANE HYDROXY AND C14-16-ALKENE, SODIUM SALTS (SODIUM C14-16 OLEFIN SULFONATE) (CAS: 68439-57-6)

Octanol/water partition coefficient : log K<sub>ow</sub> = -1.3

Bioaccumulation : BCF = 70.8

**12.3.2. Mixtures**

No test performed on the mixture

**12.4. Mobility in soil**

No test performed on the mixture.

**12.5. Results of PBT and vPvB assessment**

See section 2.3

**12.6. Endocrine disrupting properties**

See section 2.3

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**12.7. Other adverse effects**

No test performed on the mixture.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

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**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number or ID number**

Exempt from transport classification and labelling.

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**14.2. UN proper shipping name**

-

Exempt from transport classification and labelling.

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

Exempt from transport classification and labelling.

-

**14.4. Packing group**

Exempt from transport classification and labelling.

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**14.5. Environmental hazards**

Exempt from transport classification and labelling.

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**14.6. Special precautions for user**

Exempt from transport classification and labelling.

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**14.7. Maritime transport in bulk according to IMO instruments**

Exempt from transport classification and labelling.

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**SECTION 15: Regulatory information**

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

**Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

**Container information:**

Packaging directive 94/62/EC and its adaptations.

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

**Explosives precursors :**

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

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**Particular provisions :**

General consumer safety directive 2001/95/EC

**Labelling for detergents (EC Regulation No. 648/2004,907/2006) :**

- 30 % and more : anionic surfactants

- perfumes

- preservatives

potassium sorbate

sodium benzoate

- allergenic fragrances :

geraniol

linalool

benzyl benzoate

coumarin

**15.2. Chemical safety assessment**

Evaluation not achieved yet by ingredient suppliers, according to Reach Regulation.

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**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

The information given correspond to the knowledge we have on the date mentioned on this document.

**Wording of the phrases mentioned in section 3 :**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.



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ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.