SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending Regulation (EC) No 1907/2006

ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	23.05.2022	50000459	Date of first issue: 23.05.2022

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

1.1 Product identifier

Product name ALL CLEAR EXTRA

Other means of identification

Product code 50000459

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

Use of the Substance/Mixture Cleaner for spraying equipment

Recommended restrictions on use Use as recommended by the label.

1.3 Details of the supplier of the safety data sheet

Supplier Address

FMC Agro Bulgaria EOOD
ISKARSKO SHOSE BLVD. NO.7
TRADE CENTER EUROPE
BUILDING 7, OFFICE 8, FLOOR 4
1528 SOFIA
BULGARIA

Telephone: +359 (0) 2 818 5656
E-mail address: SDS-Info@fmc.com (E-Mail General Information)

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Bulgaria: +(359)-32570104 (CHEMTREC)

Medical emergency:
Clinic of Toxicology at the Hospital " N.I. Pirogov"
Emergency telephone/fax: +359 2 9154 233

National number: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements :

Prevention:

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine
Alcohols, C12-15, ethoxylated

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	85480-55-3 287-335-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 10 - < 20
tetrasodium (1-hydroxyethyli-dene)bisphosphonate	3794-83-0 223-267-7	Eye Irrit. 2; H319	>= 1 - < 10
Alcohols, C12-15, ethoxylated	68131-39-5 500-195-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 --- Acute toxicity esti-mate Acute oral toxicity: 500 mg/kg	>= 1 - < 2,5
Substances with a workplace exposure limit :			
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	85480-55-3 287-335-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 10 - <= 20
tetrasodium (1-hydroxyethyli-dene)bisphosphonate	3794-83-0 223-267-7	Eye Irrit. 2; H319	>= 1 - <= 10
Alcohols, C12-15, ethoxylated	68131-39-5 500-195-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 --- Acute toxicity esti-mate Acute oral toxicity: 500 mg/kg	>= 1 - <= 2,5
Substances with a workplace exposure limit :			
(2-methoxymethylethoxy)propanol	34590-94-8		>= 1 - < 10

	252-104-2		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.
Show this safety data sheet to the doctor in attendance.
Move out of dangerous area.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : If on clothes, remove clothes.
If on skin, rinse well with water.
If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes serious eye irritation.
Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Thermal decomposition can lead to release of irritating gases and vapours. Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Use a water spray to cool fully closed containers. For safety reasons in case of fire, cans should be stored separately in closed containments. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Keep in suitable, closed containers for disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Neutralise with acid.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Dispose of rinse water in accordance with local and national

regulations.
Provide sufficient air exchange and/or exhaust in work rooms.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Avoid contact with skin and eyes.
Do not breathe vapours/dust.
Avoid formation of aerosol.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Do not spray on a naked flame or any incandescent material.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards. Observe label precautions. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a well-ventilated place. No smoking.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Cleaner for spraying equipment

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 308 mg/m3	BG OEL
Further information	Skin, This substance is listed with an occupational exposure limit in the European Union. The occupational exposure limits in this ordinance are consistent with the values adopted for the European Union (they are equal to or lower than the EU-values)			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	Workers	Inhalation	Long-term systemic effects	12 mg/m3
	Workers	Dermal	Long-term systemic effects	170 mg/kg
	Consumers	Inhalation	Long-term systemic effects	3 mg/m3
	Consumers	Dermal	Long-term systemic effects	85 mg/kg
	Consumers	Oral	Long-term systemic effects	0,85 mg/kg
tetrasodium (1-hydroxyethyli-dene)bisphosphonate	Workers	Inhalation	Long-term systemic effects	16,9 mg/m3
	Workers	Dermal	Long-term systemic effects	48 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	24 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2,4 mg/kg bw/day
	Workers	Inhalation	Long-term local ef-fects	10 mg/m3
	Consumers	Inhalation	Long-term local ef-fects	10 mg/m3
Alcohols, C12-15, ethoxylated	Workers	Inhalation	Long-term systemic effects	294 mg/m3
	Workers	Dermal	Long-term systemic effects	2080 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	87 mg/m3
	Consumers	Dermal	Long-term systemic effects	1250 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	25 mg/kg bw/day
(2-methoxymethyleth-oxy)propanol	Workers	Inhalation	Long-term systemic effects	308 mg/m3
	Workers	Dermal	Long-term systemic effects	283 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	37,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	121 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Benzenesulfonic acid, mono-	Fresh water	0,268 mg/l

C10-13-alkyl derivs., compds. with ethanolamine		
	Marine water	0,027 mg/l
	Fresh water sediment	8,1 mg/kg
	Marine sediment	8,1 mg/kg
	Soil	35 mg/kg
tetrasodium (1-hydroxyethyli-dene)bisphosphonate	Fresh water	0,096 mg/l
	Marine water	0,01 mg/l
	Fresh water sediment	193 mg/kg dry weight (d.w.)
	Marine sediment	19,3 mg/kg dry weight (d.w.)
	Soil	14 mg/kg dry weight (d.w.)
	Oral	5,3 mg/kg dry weight (d.w.)
	Sewage treatment plant	58 mg/l
Alcohols, C12-15, ethoxylated	Fresh water	0,051 mg/l
	Intermittent use/release	0,001 mg/l
	Marine water	0,005 mg/l
	Intermittent use/release	0 mg/l
	Sewage treatment plant	10 g/l
	Fresh water sediment	81,64 mg/kg dry weight (d.w.)
	Marine sediment	8,16 mg/kg dry weight (d.w.)
	Soil	1 mg/kg dry weight (d.w.)
(2-methoxymethylethoxy)propanol	Fresh water	19 mg/l
	Marine water	1,9 mg/l
	Fresh water sediment	70,2 mg/kg dry weight (d.w.)
	Marine sediment	7,02 mg/kg dry weight (d.w.)
	Soil	2,74 mg/kg dry weight (d.w.)
	Intermittent use (freshwater)	190 mg/l
	Sewage treatment plant	4168 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Protective measures : Plan first aid action before beginning work with this product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	not determined
Melting point/freezing point	:	ca. -5 °C
Boiling point/boiling range	:	ca. 100 °C
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	> 60 °C
Decomposition temperature	:	No data available
pH	:	11 - 11,5
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	Miscible
Partition coefficient: n-	:	Not available for this mixture.

octanol/water

Vapour pressure	:	No data available
Relative density	:	1,03 - 1,05
Density	:	1.030 - 1.050 kg/m3 (20 °C)
Relative vapour density	:	No data available
Particle characteristics		
Particle size	:	Not applicable
Particle Size Distribution	:	Not applicable
Shape	:	Not applicable

9.2 Other information

Explosives	:	No data available
Oxidizing properties	:	The product is not oxidizing.
Self-ignition	:	Not available for this mixture.
Evaporation rate	:	No data available
Refractive index	:	25 - 27

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Remarks: Estimated data

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Acute oral toxicity : LD50 (Rat, male and female): 1.570 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Acute oral toxicity : LD50 (Rat, male and female): 2.850 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg

Alcohols, C12-15, ethoxylated:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
Method: Expert judgement

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Acute oral toxicity : LD50 (Rat, male and female): 1.570 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Acute oral toxicity : LD50 (Rat, male and female): 2.850 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg

Alcohols, C12-15, ethoxylated:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
Method: Expert judgement

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

(2-methoxymethylethoxy)propanol:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 275 ppm
Exposure time: 7 h
Test atmosphere: vapour
Remarks: no mortality

Acute dermal toxicity : LD50 Dermal (Rabbit, male): 10 ml/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Assessment : Irritating to skin.
Result : Inflammation

Remarks : May cause skin irritation in susceptible persons.

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Species : Rabbit
Method : OECD Test Guideline 404
Result : irritating

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Alcohols, C12-15, ethoxylated:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Based on data from similar materials

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	irritating

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Alcohols, C12-15, ethoxylated:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
Remarks	:	Based on data from similar materials

(2-methoxymethylethoxy)propanol:

Species	:	Human
Result	:	No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species	:	Bovine cornea
Assessment	:	Irritating to eyes.
Result	:	Eye irritation
Remarks	:	(Data on the product itself)

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritation to eyes, reversing within 21 days

Alcohols, C12-15, ethoxylated:

Result : Irreversible effects on the eye

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Species : Rabbit
Result : Irreversible effects on the eye

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritation to eyes, reversing within 21 days

Alcohols, C12-15, ethoxylated:

Result : Irreversible effects on the eye

(2-methoxymethylethoxy)propanol:

Species : Human
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Assessment : Not a skin sensitizer.

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Test Type : Maximisation Test
Species : Guinea pig
Result : Does not cause skin sensitisation.
Remarks : Based on data from similar materials

Alcohols, C12-15, ethoxylated:

Test Type	:	Maximisation Test
Exposure routes	:	Intradermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.
Remarks	:	Based on data from similar materials

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.
Remarks	:	Based on data from similar materials

Alcohols, C12-15, ethoxylated:

Test Type	:	Maximisation Test
Exposure routes	:	Intradermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.
Remarks	:	Based on data from similar materials

(2-methoxymethylethoxy)propanol:

Species	:	Humans
Result	:	Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test) Result: negative
Genotoxicity in vivo	:	Test Type: chromosome aberration assay Species: Mouse (male) Application Route: Ingestion Result: negative

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Genotoxicity in vitro	:	Test Type: Micronucleus test Method: OECD Test Guideline 487 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials Test Type: reverse mutation assay Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	:	Test Type: Rodent Dominant Lethal Assay Species: Mouse (male) Application Route: Oral Result: negative Remarks: Based on data from similar materials
Germ cell mutagenicity- Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.

Alcohols, C12-15, ethoxylated:

Genotoxicity in vitro	:	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: Ames test Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials Test Type: Bone marrow chromosome aberration Species: Rat (male and female) Method: OECD Test Guideline 475 Result: negative Remarks: Based on data from similar materials

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: Regulation (EC) No. 440/2008, Annex, B.13/14

(Ames test)
Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay
Species: Mouse (male)
Application Route: Ingestion
Result: negative

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Genotoxicity in vitro : Test Type: Micronucleus test
Method: OECD Test Guideline 487
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Test Type: reverse mutation assay
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Rodent Dominant Lethal Assay
Species: Mouse (male)
Application Route: Oral
Result: negative
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Alcohols, C12-15, ethoxylated:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Test Type: Bone marrow chromosome aberration
Species: Rat (male and female)
Method: OECD Test Guideline 475
Result: negative
Remarks: Based on data from similar materials

(2-methoxymethylethoxy)propanol:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Test Type: in vitro assay
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified based on available information.

Components:

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Species : Rat, male
Application Route : Oral
Dose : 19, 78, 384 mg/kg bw/day
NOAEL : >= 384 mg/kg bw/day
Result : negative
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Species : Rat, male
Application Route : Oral
Dose : 19, 78, 384 mg/kg bw/day
NOAEL : >= 384 mg/kg bw/day
Result : negative
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

(2-methoxymethylethoxy)propanol:

Species	:	Rat, male and female
Application Route	:	inhalation (vapour)
Exposure time	:	2 years
Dose	:	300, 1000, 3000ppm
	:	300 ppm
Method	:	OECD Test Guideline 453
Result	:	negative
Remarks	:	Based on data from similar materials
Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen

Reproductive toxicity

Not classified based on available information.

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Effects on fertility	:	Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Method: OECD Test Guideline 416 Result: negative
Effects on foetal development	:	Test Type: reproductive and developmental toxicity study Species: Rat Application Route: Oral Result: positive

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Effects on fertility	:	Test Type: Two-generation study Species: Rat, female Application Route: Oral Dose: 0, 112, 447 mg/kg bw/d General Toxicity - Parent: LOAEL: 447 mg/kg bw/day General Toxicity F1: LOAEL: 447 mg/kg bw/day Remarks: Based on data from similar materials
Effects on foetal development	:	Test Type: Two-generation study Species: Rat Application Route: Oral Dose: 0, 112, 447 mg/kg bw/d General Toxicity Maternal: LOAEL: 447 mg/kg bw/day Embryo-foetal toxicity: NOAEL: 447 mg/kg bw/day Result: negative Remarks: Based on data from similar materials

Alcohols, C12-15, ethoxylated:

Effects on fertility	:	Test Type: Two-generation study Species: Rat, male and female

Application Route: Dermal
General Toxicity - Parent: NOAEL: 250 mg/kg body weight
Fertility: NOAEC Mating/Fertility: 250 mg/kg body weight
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Dermal
General Toxicity Maternal: NOEL: 100 mg/kg body weight
Embryo-foetal toxicity: NOAEL: > 250 mg/kg body weight
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Result: positive

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Effects on fertility : Test Type: Two-generation study
Species: Rat, female
Application Route: Oral
Dose: 0, 112, 447 mg/kg bw/d
General Toxicity - Parent: LOAEL: 447 mg/kg bw/day
General Toxicity F1: LOAEL: 447 mg/kg bw/day
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Two-generation study
Species: Rat
Application Route: Oral
Dose: 0, 112, 447 mg/kg bw/d
General Toxicity Maternal: LOAEL: 447 mg/kg bw/day
Embryo-foetal toxicity: NOAEL: 447 mg/kg bw/day
Result: negative
Remarks: Based on data from similar materials

Alcohols, C12-15, ethoxylated:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Dermal
General Toxicity - Parent: NOAEL: 250 mg/kg body weight

Fertility: NOAEC Mating/Fertility: 250 mg/kg body weight
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Dermal
General Toxicity Maternal: NOEL: 100 mg/kg body weight
Embryo-foetal toxicity: NOAEL: > 250 mg/kg body weight
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

(2-methoxymethylethoxy)propanol:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Inhalation
Dose: 300, 1000, 3000ppm
General Toxicity - Parent: NOAEL: 300
General Toxicity F1: NOAEL: 1.000
General Toxicity F2: NOAEL: 1.000
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Developmental Toxicity Screening Test
Species: Rat
Application Route: Inhalation
Dose: 0, 50, 150, 300 parts per million
General Toxicity Maternal: LOAEL: >= 300 part per million
Teratogenicity: LOAEL: >= 300 part per million
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT - single exposure

Not classified based on available information.

Components:

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

(2-methoxymethylethoxy)propanol:

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Species	:	Rat, male and female
NOAEL	:	300 mg/kg
Application Route	:	Oral - feed
Exposure time	:	>75 d

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Species	:	Rat, male and female
NOAEL	:	41 mg/kg bw/day
LOAEL	:	169 mg/kg bw/day
Application Route	:	Oral - feed
Exposure time	:	90 d
Dose	:	41, 169, 817 mg/kg bw/day
Method	:	OECD Test Guideline 408
Remarks	:	Based on data from similar materials

Alcohols, C12-15, ethoxylated:

Species	:	Rat, male and female
NOAEL	:	500 mg/kg
Application Route	:	Oral
Exposure time	:	90d
Method	:	OECD Test Guideline 408
Remarks	:	Based on data from similar materials

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Species	:	Rat, male and female
NOAEL	:	300 mg/kg
Application Route	:	Oral - feed
Exposure time	:	>75 d

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Species	:	Rat, male and female
NOAEL	:	41 mg/kg bw/day
LOAEL	:	169 mg/kg bw/day
Application Route	:	Oral - feed
Exposure time	:	90 d
Dose	:	41, 169, 817 mg/kg bw/day

Method : OECD Test Guideline 408
Remarks : Based on data from similar materials

Alcohols, C12-15, ethoxylated:

Species : Rat, male and female
NOAEL : 500 mg/kg
Application Route : Oral
Exposure time : 90d
Method : OECD Test Guideline 408
Remarks : Based on data from similar materials

(2-methoxymethylethoxy)propanol:

Species : Rat, male and female
NOAEL : 200 mg/kg
Application Route : Oral
Exposure time : 4 weeks
Dose : 40, 200, 1000mg/kg

Species : Rat, male and female
NOAEL : 200 ppm
Application Route : inhalation (vapour)
Exposure time : 13 weeks
Dose : 15, 50, 200 ppm

Species : Rabbit, male
NOAEL : 2850 mg/kg bw/day
Application Route : Dermal
Exposure time : 90d
Dose : 1, 3, 5, 10 ml/kg
Remarks : mortality

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Product:

Inhalation : Target Organs: Respiratory system
Symptoms: Irritation

Ingestion : Target Organs: Gastrointestinal tract
Symptoms: Irritation, Nausea

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.

Toxicity to algae/aquatic plants : Remarks: No data is available on the product itself.

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,67 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 29 mg/l
Exposure time: 96 h

Toxicity to fish (Chronic toxicity) : NOEC: 0,63 mg/l
Exposure time: 196 d
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 1,7 mg/l
Exposure time: 24 d
Species: Hyalella azteca (Amphipod)
Method: OECD Test Guideline 211

Toxicity to soil dwelling organisms : NOEC: 250 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 195 mg/l

Exposure time: 96 h
Test Type: flow-through test
Remarks: Based on data from similar materials

LC50 (Cyprinodon variegatus (sheepshead minnow)): 2.180 mg/l
Exposure time: 96 h
Test Type: static test
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 527 mg/l
Exposure time: 48 h
Test Type: static test
Remarks: Based on data from similar materials

LC50 (Palaeomonetes vulgaris (Grass shrimp)): 1.770 mg/l
Exposure time: 96 h
Test Type: static test
Remarks: Based on data from similar materials

Toxicity to microorganisms : NOEC (activated sludge): 200 mg/l
Exposure time: 11 d
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6,75 mg/l
Exposure time: 28 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : NOEC: 500 mg/kg
Exposure time: 28 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 222

EC50: > 1.000 mg/kg
Exposure time: 28 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 222

Plant toxicity : NOEC: >= 960 mg/kg
Exposure time: 14 d
Species: Avena sativa (oats)
Method: OECD Test Guideline 208

Toxicity to terrestrial organisms : LC0: > 284 mg/kg
Exposure time: 14 d
Species: Anas platyrhynchos (Mallard duck)
Remarks: Information given is based on data obtained from similar substances.

LC50: > 284 mg/kg
Exposure time: 14 d

Species: Colinus virginianus (Bobwhite quail)
Remarks: Information given is based on data obtained from similar substances.

Alcohols, C12-15, ethoxylated:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 2 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10 g/l Exposure time: 16,9 h Remarks: Based on data from similar materials
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,11 - 0,28 mg/l Exposure time: 30 d Species: Pimephales promelas (fathead minnow) Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1,75 mg/l End point: Immobilization Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: Based on data from similar materials NOEC: 0,77 mg/l End point: reproduction Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: Based on data from similar materials
Toxicity to soil dwelling organisms	:	LC50: > 1.000 mg/kg Species: Eisenia fetida (earthworms)

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,67 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2,9 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 29 mg/l Exposure time: 96 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,63 mg/l Exposure time: 196 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC50: 1,7 mg/l Exposure time: 24 d Species: Hyalella azteca (Amphipod) Method: OECD Test Guideline 211
Toxicity to soil dwelling organisms	:	NOEC: 250 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 195 mg/l Exposure time: 96 h Test Type: flow-through test Remarks: Based on data from similar materials LC50 (Cyprinodon variegatus (sheepshead minnow)): 2.180 mg/l Exposure time: 96 h Test Type: static test Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 527 mg/l Exposure time: 48 h Test Type: static test Remarks: Based on data from similar materials LC50 (Palaeomonetes vulgaris (Grass shrimp)): 1.770 mg/l Exposure time: 96 h Test Type: static test Remarks: Based on data from similar materials
Toxicity to microorganisms	:	NOEC (activated sludge): 200 mg/l Exposure time: 11 d Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 6,75 mg/l Exposure time: 28 d Species: Daphnia magna (Water flea) Test Type: semi-static test Remarks: Based on data from similar materials
Toxicity to soil dwelling organisms	:	NOEC: 500 mg/kg Exposure time: 28 d Species: Eisenia fetida (earthworms)

Method: OECD Test Guideline 222

EC50: > 1.000 mg/kg
Exposure time: 28 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 222

Plant toxicity : NOEC: >= 960 mg/kg
Exposure time: 14 d
Species: Avena sativa (oats)
Method: OECD Test Guideline 208

Toxicity to terrestrial organisms : LC0: > 284 mg/kg
Exposure time: 14 d
Species: Anas platyrhynchos (Mallard duck)
Remarks: Information given is based on data obtained from similar substances.

LC50: > 284 mg/kg
Exposure time: 14 d
Species: Colinus virginianus (Bobwhite quail)
Remarks: Information given is based on data obtained from similar substances.

Alcohols, C12-15, ethoxylated:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 2 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 2 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10 g/l
Exposure time: 16,9 h
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: 0,11 - 0,28 mg/l
Exposure time: 30 d
Species: Pimephales promelas (fathead minnow)
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,75 mg/l
End point: Immobilization
Exposure time: 21 d

Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials

NOEC: 0,77 mg/l
End point: reproduction
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg
Species: Eisenia fetida (earthworms)

(2-methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1.919 mg/l
Exposure time: 48 h
Test Type: static test

LC50 (Crangon crangon (shrimp)): > 1.000 mg/l
Exposure time: 48 h
Test Type: semi-static test

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 969 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Pseudomonas putida): 4.168 mg/l
Exposure time: 18 h
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,5 mg/l
Exposure time: 22 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test
Remarks: No toxicity at the limit of solubility

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data is available on the product itself.

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 85 %
Exposure time: 29 d
Method: OECD Test Guideline 301B

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Not readily biodegradable.
Remarks: Based on data from similar materials

Alcohols, C12-15, ethoxylated:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B
Remarks: Based on data from similar materials

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 85 %
Exposure time: 29 d
Method: OECD Test Guideline 301B

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Not readily biodegradable.
Remarks: Based on data from similar materials

Alcohols, C12-15, ethoxylated:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B
Remarks: Based on data from similar materials

(2-methoxymethylethoxy)propanol:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data is available on the product itself.

Components:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 2
Method: OECD Test Guideline 305E

Partition coefficient: n-octanol/water : log Pow: 1,51 (25 °C)

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 71
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: -3 (23 °C)
pH: 11,4

Alcohols, C12-15, ethoxylated:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Exposure time: 24 d
Bioconcentration factor (BCF): 237
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 4,91 - 6,78 (40 °C)

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 2
Method: OECD Test Guideline 305E

Partition coefficient: n-octanol/water : log Pow: 1,51 (25 °C)

tetrasodium (1-hydroxyethylidene)bisphosphonate:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 71
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: -3 (23 °C)
pH: 11,4

Alcohols, C12-15, ethoxylated:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Exposure time: 24 d
Bioconcentration factor (BCF): 237
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 4,91 - 6,78 (40 °C)

(2-methoxymethylethoxy)propanol:

Partition coefficient: n-octanol/water	:	log Pow: 0,004 (25 °C)

12.4 Mobility in soil

Product:

Distribution among environmental compartments	:	Remarks: No data is available on the product itself.

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information	:	This product has no known ecotoxicological effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Send to a licensed waste management company. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	:	Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Packaging that is not properly emptied must be disposed of as

the unused product.
Empty remaining contents.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/EU of the Euro-		Not applicable

pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard

Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
BG OEL	:	Bulgaria. Ordinance on the Protection of Workers from Risks related to Exposure to Chemical Agents at Work.
2000/39/EC / TWA	:	Limit Value - eight hours
BG OEL / TWA	:	8-hr Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information	:	see user defined free text

Classification of the mixture:		**Classification procedure:**
Skin Irrit. 2	H315	Based on product data or assessment
Eye Irrit. 2	H319	Based on product data or assessment

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