

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

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### 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

**Unique Formula Identifier (UFI)** : 5DM3-E05X-W00S-9RTW

#### 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.  
For professional users only.

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

**Supplier Address** FMC Agricultural Solutions A/S  
Thyborønvej 78  
DK-7673 Harbøre  
Denmark

Telephone: +45 9690 9690  
Telefax: +45 9690 9691  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Denmark: +45-69918573 (CHEMTREC)

Medical emergency:  
Denmark: +45 82 12 12 12

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version 1.2	Revision Date: 30.11.2023	SDS Number: 50000459	Date of last issue: 10.05.2023 Date of first issue: 09.05.2023
----------------	------------------------------	-------------------------	---

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 and soap.  
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.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

#### **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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version 1.2      Revision Date: 30.11.2023      SDS Number: 50000459      Date of last issue: 10.05.2023  
Date of first issue: 09.05.2023

### 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  Acute toxicity estimate  Acute oral toxicity: 1.570 mg/kg	$\geq 10 - < 20$
tetrasodium (1-hydroxyethylidene)bisphosphonate	3794-83-0 223-267-7	Eye Irrit. 2; H319	$\geq 3 - < 5$
Alcohols, C12-15, ethoxylated	68131-39-5 500-195-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute oral toxicity: 500 mg/kg	$\geq 1 - < 3$
Substances with a workplace exposure limit :			
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2		$\geq 1 - < 3$

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

- |                         |  |
|-------------------------|--|
| In case of skin contact | : If on clothes, remove clothes.<br>If on skin, rinse well with water.<br>Wash off with soap and plenty of water.<br>Get medical attention immediately if irritation develops and persists.                |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.              |
| If swallowed            | : Do NOT induce vomiting.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician. |

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

- |       |   |
|-------|---|
| Risks | : Causes skin irritation.<br>Causes serious eye 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 | : Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. |
|------------------------------|--|

Water

- |                                |  |
|--------------------------------|--|
| Unsuitable extinguishing media | : Do not spread spilled material with high-pressure water streams. |
|--------------------------------|--|

### 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         | : Carbon oxides<br>Thermal decomposition can lead to release of irritating gases and vapours.<br>Fire may produce irritating, corrosive and/or toxic gases. |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

### 5.3 Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.  
If it can be safely done, stop the leak.  
Keep people away from and upwind of spill/leak.  
Remove all sources of ignition.  
Immediately evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

### 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 : Neutralise with acid.  
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).  
Keep in suitable, closed containers for disposal.

### 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version 1.2      Revision Date: 30.11.2023      SDS Number: 50000459      Date of last issue: 10.05.2023  
Date of first issue: 09.05.2023

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

- Requirements for storage areas and containers : No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Storage period : 24 Months
- Recommended storage temperature :  $> 2 - < 40^{\circ}\text{C}$
- 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/m <sup>3</sup>	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		GV	50 ppm	DK OEL

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version 1.2      Revision Date: 30.11.2023      SDS Number: 50000459      Date of last issue: 10.05.2023  
Date of first issue: 09.05.2023

			309 mg/m3	
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			
		S	100 ppm 618 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			

### 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
tetrasodium (1-hydroxyethylidene)bisphosphonate	Consumers	Oral	Long-term systemic effects	0,85 mg/kg
	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
Alcohols, C12-15, ethoxylated	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 effects	10 mg/m3
	Consumers	Inhalation	Long-term local effects	10 mg/m3
(2-methoxymethylethoxy)propanol	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
	Workers	Inhalation	Long-term systemic effects	308 mg/m3
	Workers	Dermal	Long-term systemic	283 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version 1.2      Revision Date: 30.11.2023      SDS Number: 50000459      Date of last issue: 10.05.2023  
Date of first issue: 09.05.2023

			effects	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-C10-13-alkyl derivs., compds. with ethanolamine	Fresh water	0,268 mg/l
	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-hydroxyethylidene)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.)
(2-methoxymethylethoxy)propanol	Soil	1 mg/kg dry weight (d.w.)
	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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face 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.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow

Odour : characteristic

Odour Threshold : not determined

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

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  
Concentration: 1 %

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)  
Water solubility : Miscible

Partition coefficient: n-octanol/water : Not available for this mixture.

Vapour pressure : No data available

Relative density : 1,03 - 1,05

Density : 1.030 - 1.050 kg/m<sup>3</sup> (20 °C)

Relative vapour density : No data available

Particle characteristics  
Particle size : Not applicable

### 9.2 Other information

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version 1.2	Revision Date: 30.11.2023	SDS Number: 50000459	Date of last issue: 10.05.2023 Date of first issue: 09.05.2023
----------------	------------------------------	-------------------------	---

Explosives	: No data available
Oxidizing properties	: No data available
Flammability (liquids)	: Not classified as a flammability hazard
Self-ignition	: Not available for this mixture.
Evaporation rate	: No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 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.  
Protect from frost, heat and sunlight.

### 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

### 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

#### **(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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

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

#### **(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) Study conducted in February 2013 by Harlan Laboratories, study number 41300559. Product does not meet the classification criteria as "Eye Damage Category 1" (H318). Product classified as "Eye Irritant Category 2" (H319) based on study results.

### 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

### 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

### (2-methoxymethylethoxy)propanol:

Species : Humans  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

### 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)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

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 :  $\geq$  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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version 1.2	Revision Date: 30.11.2023	SDS Number: 50000459	Date of last issue: 10.05.2023 Date of first issue: 09.05.2023
----------------	------------------------------	-------------------------	---

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
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

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.

### **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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

### 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

##### **(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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

### 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

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:**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

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 : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

---

Contaminated packaging : Empty remaining contents.  
Do not re-use empty containers.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.2 UN proper shipping name

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

#### 14.4 Packing group

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA (Cargo)	: Not regulated as a dangerous good
IATA (Passenger)	: Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

### 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 European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

#### Other regulations:

When evaluating a workplace, measures must be taken to ensure that employees are not exposed to conditions that may pose a risk during pregnancy or breastfeeding (cf. The Danish Working Environment Authority's Executive Order on The Performance of Work)

Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

#### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version 1.2	Revision Date: 30.11.2023	SDS Number: 50000459	Date of last issue: 10.05.2023 Date of first issue: 09.05.2023
----------------	------------------------------	-------------------------	---

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	: On the inventory, or 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
DK OEL	: Denmark. Occupational Exposure Limits
2000/39/EC / TWA	: Limit Value - eight hours
DK OEL / S	: Exposure period of 15 minutes
DK OEL / GV	: Long term exposure 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 Test-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: 10.05.2023
1.2	30.11.2023	50000459	Date of first issue: 09.05.2023

ing 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

#### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment

### Disclaimer

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## ALL CLEAR EXTRA

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