

**DETARMAX ID****SAFETY DATA SHEET**

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

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Product name : DETARMAX ID

Product code : 103392

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

N/A

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

Registered company name : IPC

10 Quai Malbert - 29200 BREST France

Tél : +33(0)2.98.43.45.44 - Fax : +33 (0)2.98.44.22.53

ipc@groupe-ipc.com

**1.4. Emergency telephone number : 01 45 42 59 59.**

Association/Organisation : INRS.

**SECTION 2 : HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****In compliance with EC regulation No. 1272/2008 and its amendments.**

Substance that is corrosive to metals, Category 1 (Met. Corr. 1, H290).

Skin corrosion, Category 1A (Skin Corr. 1A, H314).

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

May produce an allergic reaction (EUH208).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

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

**2.2. Label elements**

Detergent mixture (see section 15).

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

Hazard pictograms :



GHS07



GHS05

Signal Word :

DANGER

Product identifiers :

EC 231-595-7

HYDROCHLORIC ACID

EC 231-633-2

PHOSPHORIC ACID

Additional labeling :

EUH208

Contains METHENAMINE. May produce an allergic reaction.

Hazard statements :

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

Precautionary statements - Prevention :

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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Precautionary statements - Response :

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305 + P351 + P338

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

P310

Immediately call a POISON CENTER/doctor/...

Precautionary statements - Disposal :

P501

Dispose of contents/container to ...

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

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

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

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 017_002_01_X CAS: 7647-01-0 EC: 231-595-7 REACH: 01-2119484862-27-XXXX	GHS05, GHS07 Dgr Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335	B [i]	10 $\leq$ x % < 25
HYDROCHLORIC ACID			
INDEX: 015_011_00_6 CAS: 7664-38-2 EC: 231-633-2 REACH: 01-2119485924-24	GHS07, GHS05 Dgr Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314	B [i]	2.5 $\leq$ x % < 10
PHOSPHORIC ACID			
INDEX: 202 CAS: 5949-29-1 EC: 201-069-1 REACH: 01-2119457026-42-XXXX	GHS07 Wng Eye Irrit. 2, H319		2.5 $\leq$ x % < 10
ACIDE CITRIQUE			
INDEX: 603_096_00_8 CAS: 112-34-5 EC: 203-961-6 REACH: 01-2119475104-44	GHS07 Wng Eye Irrit. 2, H319	[i] [xvii]	2.5 $\leq$ x % < 10
2-(2-BUTOXYETHOXY)ETHANOL			
INDEX: 612_101_00_2 CAS: 100-97-0 EC: 202-905-8 REACH: 01-2119474895-20-XXXX	GHS07, GHS02 Wng Flam. Sol. 2, H228 Skin Sens. 1, H317		0 $\leq$ x % < 2.5
METHENAMINE			

**Specific concentration limits:**

Identification	Specific concentration limits	ATE
INDEX: 017_002_01_X CAS: 7647-01-0 EC: 231-595-7 REACH: 01-2119484862-27-XXXX	Skin Corr. 1B: H314 $C \geq 25\%$ Skin Irrit. 2: H315 $10\% \leq C < 25\%$ Eye Dam. 1: H318 $C \geq 25\%$ Eye Irrit. 2: H319 $10\% \leq C < 25\%$	inhalation: ATE = 45.6 mg/l 4h (dust/mist) oral: ATE = 700 mg/kg BW
HYDROCHLORIC ACID		

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INDEX: 015_011_00_6 CAS: 7664-38-2 EC: 231-633-2 REACH: 01-2119485924-24  PHOSPHORIC ACID	Skin Corr. 1B: H314 C>= 25% Skin Irrit. 2: H315 10% <= C < 25% Eye Dam. 1: H318 C>= 25% Eye Irrit. 2: H319 10% <= C < 25%	dermal: ATE = 1260 mg/kg BW
INDEX: 202 CAS: 5949-29-1 EC: 201-069-1 REACH: 01-2119457026-42-XXXX  ACIDE CITRIQUE		oral: ATE = 5400 mg/kg BW
INDEX: 603_096_00_8 CAS: 112-34-5 EC: 203-961-6 REACH: 01-2119475104-44  2-(2-BUTOXYETHOXY)ETHANOL		dermal: ATE = 2764 mg/kg BW oral: ATE = 2410 mg/kg BW
INDEX: 612_101_00_2 CAS: 100-97-0 EC: 202-905-8 REACH: 01-2119474895-20-XXXX  METHENAMINE		oral: ATE = 9200 mg/kg BW

**Information on ingredients :**

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

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

[xvii] Restricted substance under Regulation (EC) No. 1907/2006 (REACH), Annex XVII.

**SECTION 4 : FIRST AID MEASURES**

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

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures****In the event of exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

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

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

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

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

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

Remove any soiled or splashed clothing immediately.

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

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

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

**In the event of swallowing :**

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

**DETARMAX ID****SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media****Suitable methods of extinction**

In the event of a fire, use :

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

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

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

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

Do not breathe in smoke.

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

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- hydrogen chloride (HCl)
- phosgene (CCl<sub>2</sub>O)
- chlorine (Cl<sub>2</sub>)

**5.3. Advice for firefighters**

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

**For first aid worker**

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

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

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## SECTION 7 : HANDLING AND STORAGE

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

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

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

**Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

**Prohibited equipment and procedures :**

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

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

No data available.

**Storage**

Keep the container tightly closed in a dry, well-ventilated place.

**Packaging**

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

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

No data available.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters****Occupational exposure limits :**

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

CAS	VME-mg/m3	VME-ppm	VLE-mg/m3	VLE-ppm	Notes
7647-01-0	8	5	15	10	-
7664-38-2	1	-	2	-	-
112-34-5	67.5	10	101.2	15	-

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7647-01-0			2 ppm	A4	
7664-38-2	1 mg/m3	3 mg/m3			

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

CAS	VME :	VME :	Excess	Notes
7647-01-0		2 ppm 3 mg/m3		2(I)
7664-38-2		2E mg/m3		2(I)
112-34-5		10 ppm 67 mg/m3		1.5 (I)

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

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
7647-01-0			5	7.6	VLRC	
7664-38-2	0.2	1	0.5	2	VLRI	

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112-34-5	10	67.5	15	101.2	VLRI	84
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- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
7647-01-0	1 ppm 2 mg/m3	5 ppm 8 mg/m3			
7664-38-2	1 mg/m3	2 mg/m3			
112-34-5	10 ppm 67.5 mg/m3	15 ppm 101.2 mg/m3			

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

METHENAMINE (CAS: 100-97-0)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

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

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Short term systemic effects.  
229 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
5.6 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term systemic effects.  
1400 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

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

Exposure method:  
Potential health effects:  
DNEL :

Ingestion.  
Short term systemic effects.  
20 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

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

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Short term systemic effects.  
22.9 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
1.2 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term systemic effects.  
140 mg of substance/m3

2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

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**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

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

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
67.5 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
67.5 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
101.2 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

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

Exposure method:  
Potential health effects:  
DNEL :

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

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
34 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
34 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
7.5 mg of substance/m3

## PHOSPHORIC ACID ...% (CAS: 7664-38-2)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Long term local effects.  
1 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
10.7 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
2 mg of substance/m3

## HYDROCHLORIC ACID ...% (CAS: 7647-01-0)

**DETARMAX ID****Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Long term local effects.  
8 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
15 mg of substance/m3

**Predicted no effect concentration (PNEC):****METHENAMINE (CAS: 100-97-0)**

Environmental compartment:  
PNEC :

Soil.  
0.28 mg/kg

Environmental compartment:  
PNEC :

Fresh water.  
3 mg/l

Environmental compartment:  
PNEC :

Sea water.  
0.3 mg/l

Environmental compartment:  
PNEC :

Intermittent waste water.  
30 mg/l

Environmental compartment:  
PNEC :

Fresh water sediment.  
2.4 mg/kg

Environmental compartment:  
PNEC :

Marine sediment.  
0.4 mg/kg

Environmental compartment:  
PNEC :

Waste water treatment plant.  
100 mg/l

**2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)**

Environmental compartment:  
PNEC :

Soil.  
0.4 mg/l

Environmental compartment:  
PNEC :

Fresh water.  
1 mg/l

Environmental compartment:  
PNEC :

Sea water.  
0.1 mg/l

Environmental compartment:  
PNEC :

Intermittent waste water.  
3.9 mg/l

Environmental compartment:  
PNEC :

Fresh water sediment.  
4 mg/l

Environmental compartment:  
PNEC :

Marine sediment.  
0.4 mg/l

Environmental compartment:  
PNEC :

Waste water treatment plant.  
200 mg/l

**ACIDE CITRIQUE (CAS: 5949-29-1)**

Environmental compartment:

Soil.



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PNEC :	29.2 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.44 mg/l
Environmental compartment: PNEC :	Sea water. 0.044 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 7.52 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.752 mg/kg
<b>HYDROCHLORIC ACID ...% (CAS: 7647-01-0)</b>	
Environmental compartment: PNEC :	Fresh water. 0.036 mg/l
Environmental compartment: PNEC :	Sea water. 0.036 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.045 mg/l
Environmental compartment: PNEC :	Marine sediment. 0.045 mg/l
Environmental compartment: PNEC :	Waste water treatment plant. 0.036 mg/l

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

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



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

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

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

**- Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

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

**- Hand protection**

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

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

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

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Type of gloves recommended :

- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)
- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.

Suitable type of protective boots :

In the event of minor spatter, wear protective boots or half-boots against chemical risks in accordance with standard EN13832-2.

In the event of prolonged contact, wear boots or half-boots with liquid-chemical-resistant and waterproof soles and uppers in accordance with standard EN13832-3.

Work clothing worn by personnel shall be laundered regularly.

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

**- Respiratory protection**

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

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

Physical state : Fluid liquid.

**Colour**

N/A

**Odour**

Odour threshold : Not stated.

**Melting point**

Melting point/melting range : Not specified.

**Freezing point**

Freezing point / Freezing range : Not stated.

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

Boiling point/boiling range : Not specified.

**Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) Not stated.

:

Explosive properties, upper explosivity limit (%) Not stated.

:

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not specified.

**DETARMAX ID****Decomposition temperature**

Decomposition point/decomposition range : Not specified.

**pH**

pH : 0.50 +/-0.5.  
Strongly acidic.

pH (aqueous solution) : Not stated.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Dilutable.  
Fat solubility : Not stated.

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

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

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : 1.2

**Relative vapour density**

Vapour density : Not stated.

**Particle characteristics**

The mixture does not contain nanoforms.

**9.2. Other information**

No data available.

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

No data available.

**9.2.2. Other safety characteristics**

No data available.

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

Mixture which by chemical action can corrode and even destroy metals.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Avoid :  
- frost

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- hydrogen chloride (HCl)
- phosgene (CCl<sub>2</sub>O)
- chlorine (Cl<sub>2</sub>)

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## SECTION 11 : TOXICOLOGICAL INFORMATION

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

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure for up to three minutes.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

## 11.1.1. Substances

## Acute toxicity :

METHENAMINE (CAS: 100-97-0)

Oral route : LD50 = 9200 mg/kg bodyweight/day  
Species : Rat

Dermal route : LD50 > 2000 mg/kg bodyweight/day  
Species : Rat  
OECD Guideline 402 (Acute Dermal Toxicity)

2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

Oral route : LD50 = 2410 mg/kg bodyweight/day  
Species : Mouse  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 = 2764 mg/kg bodyweight/day  
Species : Rabbit  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 > 29 ppm  
Species : Rat  
OECD Guideline 403 (Acute Inhalation Toxicity)

ACIDE CITRIQUE (CAS: 5949-29-1)

Oral route : LD50 = 5400 mg/kg bodyweight/day  
Species : Mouse

Dermal route : LD50 > 2000 mg/kg bodyweight/day  
Species : Rat

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

Oral route : LD50 < 2000 mg/kg bodyweight/day  
Species : Rat

Dermal route : LD50 = 1260 mg/kg bodyweight/day  
Species : Rat

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)

Oral route : LD50 = 700 mg/kg bodyweight/day  
Species : Rat

Dermal route : LD50 > 5010 mg/kg bodyweight/day  
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 = 45.6 mg/l  
Species : Rat

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Duration of exposure : 4 h

**Respiratory or skin sensitisation :**

METHENAMINE (CAS: 100-97-0)

Guinea Pig Maximisation Test (GMPT) :

Sensitiser.

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.

Species : Others

OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity :**

ACIDE CITRIQUE (CAS: 5949-29-1)

Mutagenesis (in vivo) :

Negative.

Mutagenesis (in vitro) :

Negative.

**11.1.2. Mixture****Skin corrosion/skin irritation :**

Corrosive classification is based on an extreme pH value.

**Respiratory or skin sensitisation :**

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

**11.2. Information on other hazards****SECTION 12 : ECOLOGICAL INFORMATION****12.1. Toxicity****12.1.1. Substances**

METHENAMINE (CAS: 100-97-0)

Fish toxicity :

LC50 = 49800 mg/l

Species : Pimephales promelas

Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :

EC50 = 36000 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

Algae toxicity :

ECr50 3000 mg/l

Species : Pseudokirchnerella subcapitata

Duration of exposure : 96 h

NOEC = 1.5 mg/l

Species : Pseudokirchnerella subcapitata

Duration of exposure : 14 days

2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

Fish toxicity :

LC50 = 1300 mg/l

Species : Lepomis macrochirus

Duration of exposure : 96 h

Crustacean toxicity :

EC50 &gt; 100 mg/l

Species : Daphnia magna

**DETARMAX ID**

	Duration of exposure : 48 h
Algae toxicity :	ECr50 > 100 mg/l Species : Scenedesmus subspicatus Duration of exposure : 96 h OECD Guideline 201 (Alga, Growth Inhibition Test)
ACIDE CITRIQUE (CAS: 5949-29-1)	
Fish toxicity :	LC50 < 706 mg/l Duration of exposure : 48 h
Crustacean toxicity :	EC50 = 1535 mg/l Species : Daphnia magna
Algae toxicity :	ECr50 = 640 mg/l Species : Scenedesmus quadricauda Duration of exposure : 96 h
PHOSPHORIC ACID ...% (CAS: 7664-38-2)	
Fish toxicity :	LC50 = 3 mg/l Species : Lepomis macrochirus Duration of exposure : 96 h
Crustacean toxicity :	EC50 > 100 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Algae toxicity :	ECr50 > 100 mg/l Species : Desmodesmus subspicatus Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
HYDROCHLORIC ACID ...% (CAS: 7647-01-0)	
Fish toxicity :	LC50 = 369 mg/l Species : Brachydanio rerio Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 213 mg/l Species : Daphnia magna Duration of exposure : 48 h

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability****12.2.1. Substances**

METHENAMINE (CAS: 100-97-0)	
Biodegradability :	Non-rapidly degradable.
2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)	
Biodegradability :	Rapidly degradable.
ACIDE CITRIQUE (CAS: 5949-29-1)	
Chemical oxygen demand :	DCO = 0.728 g/g

**DETARMAX ID**

Biodegradability : Rapidly degradable.  
BOD5/COD = 1

**12.3. Bioaccumulative potential****12.3.1. Substances**

METHENAMINE (CAS: 100-97-0)

Octanol/water partition coefficient :

log K<sub>ow</sub> = -2.18

OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)

Octanol/water partition coefficient :

log K<sub>ow</sub> = 0.56

ACIDE CITRIQUE (CAS: 5949-29-1)

Octanol/water partition coefficient :

log K<sub>ow</sub> = 1.72

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

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

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

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

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

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

**Soiled packaging :**

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

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2023 [64]).

**14.1. UN number or ID number**

3264

**14.2. UN proper shipping name**

UN3264=CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(hydrochloric acid , phosphoric acid )

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

- Classification :



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**DETARMAX ID****14.4. Packing group**

II

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C1	II	8	80	1 L	274	E2	2	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	8	-	II	1 L	F-A. S-B	274	E2	Category B SW2	SGG1 SG36 SG49

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	II	851	1 L	855	30 L	A3 A803	E2
	8	-	II	Y840	0.5 L	-	-	A3 A803	E2

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

**SECTION 15 : REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

**Container information:**

No data available.

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

The mixture contains at least one restricted substance under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): <https://echa.europa.eu/substances-restricted-under-reach>. Please refer to Section 3 to identify the substance involved.

**Explosives precursors :**

The mixture contains at least one substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors:

- Hexamine (CAS 100-97-0)

The acquisition, introduction, possession or use of this restricted explosive precursor by members of the general public is subject to the reporting obligations.

**Particular provisions :**

No data available.

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

- less than 5 % : anionic surfactants

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

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

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

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

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



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

H228	Flammable solid.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

**Abbreviations and acronyms :**

LD50	: The dose of a test substance resulting in 50% lethality in a given time period.
LC50	: The concentration of a test substance resulting in 50% lethality in a given period.
EC50	: The effective concentration of substance that causes 50% of the maximum response.
ECr50	: The effective concentration of substance that causes 50% reduction in growth rate.
NOEC	: The concentration with no observed effect.
REACH	: Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE	: Acute Toxicity Estimate
BW	: Body Weight
DNEL	: Derived No-Effect Level
PNEC	: Predicted No-Effect Concentration
STEL	: Short-term exposure limit
TWA	: Time Weighted Averages
TMP	: French Occupational Illness table
TLV	: Threshold Limit Value (exposure)
AEV	: Average Exposure Value.
VLRI	: Indicative limit value
VLRC	: Indicative constraint value
ADR	: European agreement concerning the international carriage of dangerous goods by Road.
IMDG	: International Maritime Dangerous Goods.
IATA	: International Air Transport Association.
ICAO	: International Civil Aviation Organisation
RID	: Regulations concerning the International carriage of Dangerous goods by rail.
WGK	: Wassergefährdungsklasse (Water Hazard Class).
GHS05	: Corrosion
GHS07	: Exclamation mark
PBT	: Persistent, bioaccumulable and toxic.
vPvB	: Very persistent, very bioaccumulable.
SVHC	: Substances of very high concern.