

DETARNET DOSE

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 : DETARNET DOSE
Product code : 103343

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

Cleaner and discaler.
Professional use.

1.3. Details of the supplier of the safety data sheet

Registered company name : IPC.
Address : 10 Quai Malbert.29200.BREST.FRANCE.
Telephone : +33 (0)2 98 43 45 44. Fax : .
ipc@groupe-ipc.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

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

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

May produce an allergic reaction (EUH208).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

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

2.2. Label elements

Detergent mixture (see section 15).

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

Hazard pictograms :



GHS05

Signal Word :

DANGER

Product identifiers :

EC 239-707-6 SODIUM CARBONATE PEROXYHYDRATE

Additional labeling :

EUH208 Contains D-LIMONENE. May produce an allergic reaction.

Hazard statements :

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Precautionary statements - Response :

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

DETARNET DOSE

P310 Immediately call a POISON CENTER, a doctor.
P332 + P313 If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards

In use, may form flammable/explosive dust-air mixture.

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

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

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

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
INDEX: 016-026-00-0 CAS: 5329-14-6 EC: 226-218-8 REACH: 01-2119488633-28	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412		50 \leq x % < 100
SULPHAMIDIC ACID INDEX: 011-005-00-2 CAS: 497-19-8 EC: 207-838-8 REACH: 01-2119485498-19	GHS07 Wng Eye Irrit. 2, H319		10 \leq x % < 25
SODIUM CARBONATE INDEX: 25322_68_3 CAS: 25322-68-3		[1]	2.5 \leq x % < 10
POLYÉTHYLÈNEGLYCOL INDEX: 15630_89_4 CAS: 15630-89-4 EC: 239-707-6 REACH: 01-2119457268-30	GHS07, GHS05, GHS03 Dgr Ox. Sol. 3, H272 Acute Tox. 4, H302 Eye Dam. 1, H318		2.5 \leq x % < 10
SODIUM CARBONATE PEROXYHYDRATE INDEX: 7631_86_9 CAS: 7631-86-9 EC: 231-545-4		[1]	0 \leq x % < 1
SILICON DIOXIDE INDEX: I601029007A CAS: 5989-27-5 EC: 227-813-5 REACH: 01-2119529223-47	GHS08, GHS02, GHS07, GHS09 Dgr Asp. Tox. 1, H304 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[1]	0 \leq x % < 0.5
D-LIMONENE INDEX: I76_22_2 CAS: 76-22-2 EC: 200-945-0 REACH: 01-2119966156-31	GHS02, GHS07, GHS08 Wng Flam. Sol. 2, H228 Acute Tox. 4, H302 Acute Tox. 4, H332	[1]	0 \leq x % < 0.1
1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPTAN-2-ONE	STOT SE 2, H371		

DETARNET DOSE

INDEX: I128_37_0 CAS: 128-37-0 EC: 204-881-4 REACH: 01-2119480433-40 BUTYLATED HYDROXYTOLUENE	GHS09 Wng Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[1]	0 <= x % < 0.1
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Specific concentration limits:

Identification	Specific concentration limits	ATE
INDEX: 15630_89_4 CAS: 15630-89-4 EC: 239-707-6 REACH: 01-2119457268-30 SODIUM CARBONATE PEROXYHYDRATE	Ox. Sol. 3: H272 C>= 100%	oral: ATE = 1034 mg/kg BW
INDEX: I76_22_2 CAS: 76-22-2 EC: 200-945-0 REACH: 01-2119966156-31 1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPTAN-2-ONE	STOT SE 2 (Inh) : H371 C>= 10%	oral: ATE = 1500 mg/kg BW

Information on ingredients :

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

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

SECTION 4 : FIRST AID MEASURES

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

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

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

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

In the event of splashes or contact with eyes :

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

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

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

In the event of splashes or contact with skin :

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

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

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

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

In the event of swallowing :

Do not give the patient anything orally.

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

Seek medical attention immediately, showing the label.

Keep at rest. Do not induce vomiting.

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.

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

DETARNET DOSE

- powder
- carbon dioxide (CO₂)

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 (CO₂)
- sulphur dioxide (SO₂)

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 any contact with the skin and eyes.

Avoid dust inhalation.

For first aid worker

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

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

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

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

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

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

Prohibited equipment and procedures :

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

7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach of children.

Storage

Recommended storage temperature: + 0°C to + 40°C

Packaging

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

DETARNET DOSE

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
76-22-2	2 ppm	3 ppm		A4	
128-37-0	2 (IFV) mg/m ³			A4	

- Germany - AGW (BAuA - TRGS 900, 08/08/2019) :

CAS	VME :	VME :	Excess	Notes
25322-68-3		200 E mg/m ³		8(II)
7631-86-9		4E mg/m ³		
5989-27-5		5 ppm 28 mg/m ³		4(II)
128-37-0		10 E mg/m ³		4 (II)

- Belgium (Arrêté du 19/11/2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
76-22-2	2 ppm 12 mg/m ³	3 ppm 19 mg/m ³			
128-37-0	2 mg/m ³				

- France (INRS - ED984 / 2020-1546) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
76-22-2	2	12	-	-	-	-
128-37-0	-	10	-	-	-	-

- Switzerland (SUVAPRO 2019) :

CAS	VME	VLE	Valeur plafond	Notations
25322-68-3	500 ppm			
7631-86-9	4 ppm			
5989-27-5	7 ppm 40 mg/m ³	14 mg/m ³ 80 fc/m ³		
76-22-2	2 ppm 13 mg/m ³			
128-37-0	10 ppm	40 mg/m ³		

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
76-22-2	2 ppm 13 mg/m ³	3 ppm 19 mg/m ³			
128-37-0	10 mg/m ³				

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

SODIUM CARBONATE PEROXYHYDRATE (CAS: 15630-89-4)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Short term local effects.
12.8 mg of substance/cm²

Exposure method:
Potential health effects:
DNEL :

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

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Dermal contact.
Short term local effects.
6.4 mg of substance/cm²

SULPHAMIDIC ACID (CAS: 5329-14-6)

DETARNET DOSE

Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	10 mg/kg body weight/day

Final use:	Consumers.
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	5 mg/kg body weight/day

Predicted no effect concentration (PNEC):

SODIUM CARBONATE PEROXYHYDRATE (CAS: 15630-89-4)	
Environmental compartment:	Fresh water.
PNEC :	35 µg/l
Environmental compartment:	Fresh water sediment.
PNEC :	10 µg/l
Environmental compartment:	Waste water treatment plant.
PNEC :	16 mg/l
SULPHAMIDIC ACID (CAS: 5329-14-6)	
Environmental compartment:	Soil.
PNEC :	0.00638 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.048 mg/l
Environmental compartment:	Sea water.
PNEC :	0.0048 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	0.173 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	0.0173 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	2 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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

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

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

- Eye / face protection

Avoid contact with eyes.

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

Prescription glasses are not considered as protection.

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

- Hand protection

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.

DETARNET DOSE

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

These clothes shall be chosen to ensure there is no inflammation or irritation of the skin at the neck and wrist by contact with the powder

Suitable type of protective clothing :

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

Work clothing worn by personnel shall be laundered regularly.

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

- Respiratory protection

Avoid inhaling dust.

Type of FFP mask :

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

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Solid.

Tablet

Colour

White

Odour

Odour threshold : Not stated.

Mint

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.

Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : Not relevant.

pH (aqueous solution) : 2.5 à 1%

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Soluble.

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.

DETARNET DOSE

Density and/or relative density

Density : Not stated.

Relative vapour density

Vapour density : Not stated.

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

No data available.

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 :

- formation of dusts
- humidity

Dusts can form an explosive mixture with air.

10.5. Incompatible materials

Keep away from :

- bases

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- sulphur dioxide (SO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

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

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

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

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

11.1.1. Substances

Acute toxicity :

1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPTAN-2-ONE (CAS: 76-22-2)
Oral route : LD50 = 1500 mg/kg

SODIUM CARBONATE PEROXYHYDRATE (CAS: 15630-89-4)
Oral route : LD50 = 1034 mg/kg
Species : Rat

Dermal route : LD50 > 2000 mg/kg
Species : Rabbit

11.1.2. Mixture

Respiratory or skin sensitisation :

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

DETARNET DOSE

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

- CAS 128-37-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
- CAS 123-35-3 : IARC Group 2B : The agent is possibly carcinogenic to humans.
- CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
- CAS 7631-86-9 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

SODIUM CARBONATE PEROXYHYDRATE (CAS: 15630-89-4)

Fish toxicity : LC50 = 70.7 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 4.9 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Aquatic plant toxicity : ECr50 = 2.62 mg/l
Species : Others
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of Member States and will be provided with their request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

No data available.

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, preferably 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.

DETARNET DOSE

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number or ID number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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 and its amendments EU . (ATP)

- Container information:

No data available.

- Particular provisions :

No data available.

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

- less than 5 % : anionic surfactants
- less than 5 % : nonionic surfactants
- 5 % or over but less than 15 % : oxygenbased bleaching agents
- perfumes
- allergenic fragrances :
d-limonene

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.

Changes from the previous version :

- Section 1
- Section 9

Wording of the phrases mentioned in section 3 :

H226	Flammable liquid and vapour.
H228	Flammable solid.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

DETARNET DOSE

H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H371	May cause damage to organs .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations :

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.
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
UFI : Unique formulation identifier.
STEL : Short-term exposure limit
TWA : Time Weighted Averages
TMP : French Occupational Illness table
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS05 : Corrosion
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.