

**PROVIM DOSES**

**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

**1.1. Product identifier**

Product name : PROVIM DOSES

Product code : 102445

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

Tablets for dishwasher.

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@ipc-sa.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.**

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

May produce an allergic reaction (EUH208).

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

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

**2.2. Label elements**

Detergent mixture (see section 15).

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

Hazard pictograms :



GHS05

Signal Word :

DANGER

Product identifiers :

EC 239-707-6

SODIUM CARBONATE PEROXYHYDRATE

EC 237-623-4

DISODIUM DISILICATE

Additional labeling :

EUH208

Contains SUBTILISIN. May produce an allergic reaction.

Hazard statements :

H318

Causes serious eye damage.

Precautionary statements - Prevention :

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves/protective clothing/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.

P310

Immediately call a POISON CENTER, a doctor.

**PROVIM DOSES**

**2.3. Other hazards**

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

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

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

Identification	(EC) 1272/2008	Note	%
INDEX: 011-005-00-2 CAS: 497-19-8 EC: 207-838-8 REACH: 01-2119485498-19  SODIUM CARBONATE	GHS07 Wng Eye Irrit. 2, H319		25 $\leq$ x % < 50
INDEX: 15630_89_4 CAS: 15630-89-4 EC: 239-707-6 REACH: 01-2119457268-30  SODIUM CARBONATE PEROXYHYDRATE	GHS07, GHS05, GHS03 Dgr Ox. Sol. 3, H272 Acute Tox. 4, H302 Eye Dam. 1, H318		10 $\leq$ x % < 25
INDEX: 13870_28_5 CAS: 13870-28-5 EC: 237-623-4 REACH: 01-2119485031-47  DISODIUM DISILICATE	GHS05 Dgr Eye Dam. 1, H318		2.5 $\leq$ x % < 10
INDEX: 57_50_1 CAS: 57-50-1 EC: 200-334-9  SUCROSE		[1]	0 $\leq$ x % < 1
INDEX: 9005_25_8 CAS: 9005-25-8 EC: 232-679-6  STARCH		[1]	0 $\leq$ x % < 0.5
INDEX: 9014_01_1 CAS: 9014-01-1 EC: 232-752-2 REACH: 01-2119480434-38  SUBTILISIN	GHS07, GHS05, GHS09, GHS08 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1	[1]	0 $\leq$ x % < 0.5
INDEX: 13463_67_7 CAS: 13463-67-7 EC: 236-675-5 REACH: 01-2119489379-17  TITANIUM DIOXIDE		[1]	0 $\leq$ x % < 0.5

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

**Information on ingredients :**

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

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## PROVIM DOSES

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### SECTION 4 : FIRST AID MEASURES

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

NEVER induce swallowing by an unconscious person.

#### 4.1. Description of first aid measures

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

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

In the event of 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 :

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

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

Rinse thoroughly with water. If discomfort persists, consult a doctor.

##### In the event of swallowing :

Seek medical attention, 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.

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### SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

#### 5.1. Extinguishing media

##### Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- 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>)

#### 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.

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### SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

##### For non first aid worker

Avoid any contact with the skin and eyes.

Avoid dust inhalation.

##### For first aid worker

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

**PROVIM DOSES**

**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/vacuuuming).

**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 the reach of children.

**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 :**

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
57-50-1	10 mg/m <sup>3</sup>			A4	
9005-25-8	10 mg/m <sup>3</sup>			A4	
9014-01-1			0,00006 mg/m <sup>3</sup>		
13463-67-7	10 mg/m <sup>3</sup>			A4	

- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m <sup>3</sup> :	VLE-ppm :	VLE-mg/m <sup>3</sup> :	Notes :	TMP No :
57-50-1	-	10	-	-	-	-
13463-67-7	-	10	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
57-50-1	- ppm 10 mg/m <sup>3</sup>	- ppm 20 mg/m <sup>3</sup>			
9005-25-8	- ppm 4 mg/m <sup>3</sup>	- ppm - mg/m <sup>3</sup>			
9014-01-1	- ppm 0,00004 mg/m <sup>3</sup>	- ppm - mg/m <sup>3</sup>		Sen	
13463-67-7	- ppm 4 mg/m <sup>3</sup>	- ppm - mg/m <sup>3</sup>			

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

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

## PROVIM DOSES

### 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

### Predicted no effect concentration (PNEC):

TITANIUM DIOXIDE (CAS: 13463-67-7)

Environmental compartment: Fresh water.  
PNEC : 0.127 mg/l

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

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

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

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

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

#### - Eye / face protection

Avoid contact with eyes.

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

Prescription glasses are not considered as protection.

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

#### - Hand protection

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

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

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.

Recommended properties :

- Impervious gloves in accordance with standard EN374

#### - Body protection

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 breathing dust.

Type of FFP mask :

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

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**PROVIM DOSES**

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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**General information :**

Physical state : Solid.  
Appearance : three-layer tablet  
Color : white - green - white

**Important health, safety and environmental information**

pH : Not relevant.  
pH (aqueous solution) : 10.5 à 1%  
Boiling point/boiling range : Not specified.  
Flash point interval : Not relevant.  
Vapour pressure (50°C) : Not relevant.  
Density : Not stated.  
Water solubility : Soluble.  
Melting point/melting range : Not specified.  
Self-ignition temperature : Not specified.  
Decomposition point/decomposition range : Not specified.

**9.2. Other information**

No data available.

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**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  
- heat  
Dusts can form an explosive mixture with air.

**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>)

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**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

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 :**

SUBTILISIN (CAS: 9014-01-1)  
Oral route : LD50 = 1800 mg/kg  
Species : Rat  
  
Dermal route : LD50 > 2 ml/kg

## PROVIM DOSES

	Species : Rabbit
Inhalation route (Dusts/mist) :	LC50 = 0.8 mg/l Species : Rat
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.

## SECTION 12 : ECOLOGICAL INFORMATION

### 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
SUBTILISIN (CAS: 9014-01-1)	
Fish toxicity :	LC50 = 8.2 mg/l Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 0.17 mg/l Duration of exposure : 48 h
Algae toxicity :	NOEC = 0.041 mg/l Species : Pseudokirchnerella subcapitata 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.

#### 12.2.1. Substances

TITANIUM DIOXIDE (CAS: 13463-67-7)	
Biodegradability :	Non-rapidly degradable.
SUBTILISIN (CAS: 9014-01-1)	
Biodegradability :	Rapidly degradable.

### 12.3. Bioaccumulative potential

No data available.

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## PROVIM DOSES

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### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

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## SECTION 13 : DISPOSAL CONSIDERATIONS

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

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste :

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

Recycle or dispose of waste in compliance with current legislation, 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.

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## SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

### 14.1. UN number

-

### 14.2. UN proper shipping name

-

### 14.3. Transport hazard class(es)

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### 14.4. Packing group

-

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

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## SECTION 15 : REGULATORY INFORMATION

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

#### - Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2017/776 (ATP 10)

#### - Container information:

No data available.

#### - Particular provisions :

No data available.

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

- less than 5 % : phosphonates

- less than 5 % : nonionic surfactants

- 5 % or over but less than 15 % : oxygenbased bleaching agents

- less than 5 % : polycarboxylates

- enzymes

- perfumes

### 15.2. Chemical safety assessment

No data available.



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**PROVIM DOSES**

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**SECTION 16 : OTHER INFORMATION**

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

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

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

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

Changes from the previous version :

- Section 2 : 8ème ATP
- Section 9

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

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

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.