

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

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

1.1 Product identifier

Substance name/Trade name: DETARTRANT SPECIAL SANIBROYEUR

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

Relevant identified uses: Toilet bowl cleaning
Uses advised against: None identified yet

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: SFA
41bis, avenue Bosquet
75007 PARIS
Telephone number: 01 44 82 25 55
E-mail address: edelhommeau@sfa.fr

1.4 Emergency telephone number

European emergency number: 112
France: ORFILA: +33 (0)1 45 42 59 59

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Met. Corr. 1	H290: Can be corrosive to metals
Skin Corr. 1B	H314: Causes severe skin burns and severe eye lesions
Eye Dam. 1	H318: Causes serious eye damage

2.1.2 Additional information

No data available.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazardous product(s) which must be listed on the label
Index N°: 0145-011-00-6: Phosphoric acid

Hazard pictogram



Signal word

DANGER

FDS_EU (EN)

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

Hazard statements

H290: Can be corrosive to metals.
H314: Causes severe skin burns and severe eye lesions.

Precautionary statements

P234: Keep only in original container.
P260: Do not breathe vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
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/ shower.
P310: Immediately call a POISON CENTER/doctor.
P363: Wash contaminated clothing before reuse.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P405: Store locked up.
P501: Dispose of contents/container in accordance with local/regional/national/international regulation

2.3 Other hazards

Possible dangerous reactions with certain chemicals (See list section 10).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable, this product is a mixture.

3.2 Mixtures

Chemical nature: aqueous solution of phosphoric acid.

Chemical name	Identification number	% [mass]	Classification REGULATION (EC) No 1272/2008
Phosphoric acid	CAS N°: 7664-38-2 CE N°: 231-633-2 Index N°: 0145-011-00-6 REACH N°: 01-2119485924-24-XXXX	10 - 15%	Met. Corr. 1, H290 Skin Corr. 1B, H314 <i>Specific concentration limits:</i> Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Show this safety data sheet to the doctor in attendance.
First aider needs to protect himself.
Place affected clothing in a sealed bag for subsequent decontamination.

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

Following inhalation

In case of vapour inhalation, remove victim to fresh air.
Get medical attention, if needed.

Following skin contact

Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water for at least 15 minutes.
Get immediate medical advice/ attention.

Following eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical advice/ attention.

Following ingestion

Do NOT induce vomiting.
Rinse mouth with water.
Get immediate medical advice/ attention.

Self-protection of the first aider

Adequate protective equipment must be worn for any intervention.

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

See SECTION 4.1.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Powder, foam, carbon dioxide.

Unsuitable extinguishing media:

No data available.

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Products

Nonexplosive and nonflammable product. When heated, can release acid fumes (phosphorus oxides).
Caustic fumes can also be formed.

5.3 Advice for firefighters

Suitable respiratory equipment.
Acid-proof equipment.
Protective Clothing complying with EN 469 standard, including helmet, boots and gloves.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Evacuate area.

Avoid contact with skin and eyes.

Avoid breathing vapors or spray mist.

Personal protective equipment

Wear suitable protective clothing.

Wear suitable gloves.

Safety glasses.

6.1.2 For emergency responders

Avoid contact with skin and eyes.

Avoid breathing vapors or spray mist.

Ventilate area.

Personal protective equipment

Wear suitable protective clothing.

Wear suitable gloves.

Safety glasses.

6.2 Environmental precautions

Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.

Contain the spilled material by bunding.

Prevent product from entering sewage system.

Do not allow uncontrolled leakage of product into the environment.

6.3 Methods and material for containment and cleaning up

6.3.1 Containment

Keep out of water supplies and sewers.

6.3.2 Recovery/cleaning

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 durable containers properly labelled

Keep in suitable, closed containers for disposal.

6.3.3 Additional advice

Dispose of in accordance with local regulations.

6.4 Reference to other sections

SECTION 8: Exposure controls/personal protection and SECTION 13: Disposal considerations.

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid contact with skin and eyes.

Avoid breathing vapors or spray mist.

Personal protective equipment, see section 8.

Ensure that eyewash stations and safety showers are close to the workstation location.

Measures to prevent fire

No data available.

Measures to prevent aerosol and dust generation

No data available.

Measures to protect the environment

Prevent product from entering sewage system.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice.

Use clean, well-maintained personal protection equipment.

Remove contaminated clothing and protection equipment before entering restoration area.

When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Keep in a dry, cool and well-ventilated place.

Keep away from heat and light and also from metals or any other metallic objects.

Packaging materials

Polyethylene: 5-liter barrels.

Unsuitable materials: metals.

Requirements for storage rooms and vessels

Keep container tightly closed.

Keep in a place with acid-resistant ground.

Further information on storage conditions

Hydrogen releases in the presence of metals.

Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

No data available.

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

Phosphoric acid (CAS n°: 7664-38-2)				
Pays	Limit value – 8 hours		Limit value – Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	-	1	-	-
Austria	-	1	-	2
Belgium	-	1	-	2
Canada - Ontario	-	1	-	3
Canada - Québec	-	1	-	3
Denmark	-	1	-	2
European Union	-	1 ⁽³⁾	-	2 ⁽³⁾
Finland	-	1	-	2
France	0.2 ⁽²⁾	1 ⁽²⁾	0.5 ⁽²⁾	2 ⁽²⁾
Germany (AGS)	-	2 inhalable aerosol	-	4 inhalable aerosol ⁽¹⁾
Germany (DFG)	-	2 inhalable aerosol	-	4 inhalable aerosol ⁽¹⁾
Hungary	-	1	-	2
Ireland	-	1	-	2 ⁽¹⁾
Italy	-	1	-	2
New Zealand	-	1	-	-
People's Republic of China	-	1	-	3
Poland	-	1	-	2
Singapore	-	1	-	-
South Korea	-	1	-	3
Spain	-	1	-	2
Sweden	-	1	-	3 ⁽¹⁾
Switzerland	-	1	-	2
The Netherlands	-	1	-	2
Turkey	-	1	-	2 ⁽¹⁾
USA - NIOSH	-	1	-	3 ⁽¹⁾
USA - OSHA	-	1	-	-
United Kingdom	-	1	-	2

⁽¹⁾ 15 minutes average value

⁽²⁾ Indicative statutory limit values

⁽³⁾ Indicative Occupational Exposure Limit Values and Limit Values for Occupational Exposure

Derived No Effect Level (DNEL) / Derived Minimal Effect Level (DMEL)

Product name	Population	Potential health effects	Route of exposure	Value type	Value	Remark
Phosphoric acid	Workers	Acute effect local	Oral	-	-	
			Inhalation	-	-	
			Dermal	-	-	
		Acute effects systemic	Oral	-	-	
			Inhalation	-	-	
			Dermal	-	-	

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

Consumers	Chronic effects local	Oral	-
		Inhalation	DNEL 2,92 mg/m³
		Dermal	-
	Chronic effects systemic	Oral	-
		Inhalation	-
		Dermal	-
	Acute effect local	Oral	-
		Inhalation	-
		Dermal	-
	Acute effects systemic	Oral	-
		Inhalation	-
		Dermal	-
	Chronic effects local	Oral	-
		Inhalation	DNEL 0,73 mg/m³
		Dermal	-
Chronic effects systemic	Oral	-	
	Inhalation	-	
	Dermal	-	

Predicted No Effect Concentration (PNEC)

No data available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation.

Avoid splashes.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses complying with EN166 standard.

In case of contact through splashing:

Wear face-shield and protective suit.

Hand protection

Wear gloves complying with EN374 standard.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Gloves must be inspected prior to use.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Material: butyl rubber

Breakthrough time: ≥ 8h

Glove thickness: 0,5 mm

Material: polyisoprene

Breakthrough time: ≥ 8h

Glove thickness: 0,5 mm

Material: polyvinyl chloride (PVC)

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

Breakthrough time: ≥ 8h
Glove thickness: 0,5 mm

Material: nitril rubber
Breakthrough time: ≥ 8h
Glove thickness: 0,35 mm

Material: fluorinated rubber
Breakthrough time: ≥ 8h
Glove thickness: 0,4 mm

Skin protection

Wear acid-proof protective clothing.

Respiratory protection

In case of vapours or aerosols formation, use adequate respiratory protection.
In case of short exposure, use respiratory filter. Combined filter: B-P2

Thermal hazards

No data available.

8.2.3 Environmental exposure controls

Prevent product from entering sewage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	clear liquid
<u>Physical state</u>	liquid
<u>Colour</u>	colourless
<u>Odour</u>	odourless
<u>Odour threshold</u>	no data available
<u>pH</u>	< 2
<u>Melting point/freezing point</u>	no data available
<u>Initial boiling point and boiling range</u>	no data available
<u>Flash point</u>	not applicable (aqueous solution)
<u>Evaporation rate</u>	no data available
<u>Flammability (solid, gas)</u>	non-flammable
<u>Upper flammability or explosive limits</u>	no data available
<u>Lower flammability or explosive limits</u>	no data available
<u>Vapour pressure</u>	no data available
<u>Vapour density</u>	no data available
<u>Relative density</u>	1,075 (20°C)
<u>Water solubility</u>	soluble
<u>Partition coefficient: n-octanol/water</u>	no data available
<u>Auto-ignition temperature</u>	no data available
<u>Decomposition temperature</u>	no data available
<u>Viscosity</u>	no data available
<u>Explosive properties</u>	non-explosive
<u>Oxidising properties</u>	not oxidizing

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

9.2 Other information

Metals corrosion corrosive to metals

SECTION 10: Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions with lime, nitrates and chlorates.
Exothermic reaction with alkali metals (phosphoric acid 75%).

10.4 Conditions to avoid

Avoid exposure to high temperatures and light (phosphoric acid 75%).

10.5 Incompatible materials

Bases
Alcalis
Metals
Reducing agents

10.6 Hazardous decomposition products

Contact with metals releases hydrogen.
In case of fire, hazardous decomposition products may be released (phosphorus oxides, phosphine).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

- Acute oral toxicity
According to the data on the components, not classified as hazardous for acute oral toxicity according to GHS.
[Phosphoric acid 75%: LD50 (rat, female) = 2600 mg/kg, OECD Test Guideline 423]
- Acute inhalation toxicity
No data available.
- Acute dermal toxicity
According to the data on the components, not classified as hazardous for acute dermal toxicity according to GHS.
[Phosphoric acid 75%: LD50 (rabbit) = 2740 mg/kg]

Skin corrosion/irritation

According to the data on the components and pH (see SECTION 9), considered as corrosive.
[Phosphoric acid 75%: corrosive effects (rabbit) (OECD Test Guideline 404)]

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

Serious eye damage/eye irritation

According to the data on the components and pH (see SECTION 9), risk of serious damage to eyes.
[Phosphoric acid 75%: corrosive effects (rabbit)]

Respiratory or skin sensitisation

According to the data on the components, does not cause skin sensitisation.
[Phosphoric acid 75%: human, not sensitising]

Mutagenicity

According to the data on the components, not considered to be genotoxic.
[Phosphoric acid 75%: negative (Ames test; *Salmonella typhimurium*) (OECD Test Guideline 471) / negative (Chromosome aberration test, in vitro; in vitro mammalian cell gene mutation test) (OECD Test Guideline 473)]

Carcinogenicity

No data available.

Reproductive toxicity

According to the data on the components, not considered to be reprotoxic
[Phosphoric acid 75%: NOAEL teratog. (rat) \geq 410 mg/kg, no evidence of reproduction effects / NOAEL mother (rat, orale) \geq 500 mg/kg, OECD Test Guideline 422]

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Fish

Phosphoric acid 75%:
LC50 = 138 mg/l (*Gambusia affinis*, 96 h)
LC50 = 3 – 3.25 mg/l (*Lepomis macrochirus*, 96 h)

Crustacea

Phosphoric acid 75%:
EC50 \geq 100 mg/l (*Daphnia magna*, 48 h) (Immobilisation; OECD Test Guideline 202)

Algae/aquatic plants

Phosphoric acid 75%:
NOEC = 100 mg/l (*Desmodesmus subspicatus*, 72 h) (OECD Test Guideline 201)
EC50 > 100 mg/l (*Desmodesmus subspicatus*, 72 h) (OECD Test Guideline 201)

Other organisms

Phosphoric acid 75%:

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

EC50 = 270 mg/l (activated sludge)

Chronic (long-term) toxicity

No data available.

12.2 Persistence and degradability

Not applicable, inorganic substance.

12.3 Bioaccumulative potential

Not applicable.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB 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 Other adverse effects

No data available.

12.7 Additional information

Neutralizing the product (pH 7 +/-1.5) before any discharge to sewers.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal

Disposal with normal domestic waste is forbidden.

Disposal as special waste is needed according local regulations.

13.1.2 Waste treatment-relevant information

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

13.1.3 Sewage disposal-relevant information

Do not discharge into drains, water courses or onto the ground.

Neutralize the product with alkaline carbonate, and then wash thoroughly with water.

13.1.4 Other disposal recommendations

No data available.

SECTION 14: Transport Information

14.1 UN number

1805

14.2 UN proper shipping name

PHOSPHORIC ACID SOLUTION

SFA	SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006	Revision : 5
	DETARTRANT SPECIAL SANIBROYEUR	Issuing date : 29/07/2016

14.3 Transport hazard class(es)

8

14.4 Packing group

III

14.5 Environmental hazards

No

14.6 Special precautions for user

See SECTION 7.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

No data available.

15.2 Chemical Safety Assessment

No data available.

SECTION 16: Other information

Indication of changes

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Abbreviations and acronyms

PBT: Persistent, bioaccumulative and toxic substance.

vPvB: Very persistent and very bioaccumulative substance.

DL50: Lethal dose, 50%.

CL50: Lethal concentration, 50%.

CE50: Effect concentration, 50%.

NOEC: No observed effect concentration.

Full text of H-Statements referred to under sections 2 and 3.

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Mixture classification is based on classification criteria described in Regulation (EC) 1272/2008 [CLP].