

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II / Regulation (EU) No. 2015/830.
- Netherlands (NL)

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Version : 1.0

SAFETY DATA SHEET

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

1.1 Product identifier

Product name : Profs Pro Powder Balance

Product code : Product type :

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

Identified uses

Industrial distribution.

Industrial USE to formulate chemical product mixtures.

Professional formulation of fertiliser products.

Professional USE as fertiliser at Farm - loading and spreading.

Professional USE as fertiliser in Greenhouse.

Professional USE as liquid fertiliser in open field.

Professional USE as fertiliser - maintenance of equipment.

Uses advised against : Other non-specified industry

1.3. Details of the supplier of the safety data sheet

Profs

Address

Street : Carrer Vitòria 4
Postal code : 6531 JC

City : Mataró, Barcelona

Country : Spain

Telephone number:+34 934 18 35 30E-mail address of person:Info@profs.works

responsible for this SDS



1.4 Emergency telephone number

<u>National advisory body/Poison</u>: National Chemical Emergency Centre

<u>Center</u> +31 (0)88 755 8000 (24h)

Hours of operation : 24h

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Category	
Serious eye damage/eye irritation	2	H319 Eye irrit.2
May damage fertility or the unborn child.	1B	H360

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal picto :





Dangerous components :

Disodium tetraborate, Decahydrate H319 Causes serious eye irritation.

Hazard Statements : H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn

child

Precautionary statements : P202 - Do not handle until all safety precautions have

been read and understood.

P270 – Do not eat, drink or smoke when using this

product

P280 - Wear protective gloves and eye protection

P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

P308+P313- If exposed or concerned, get medical

advice/attention

P337+P317 - If eye irritation persists: Get medical

advice/attention

P501 - Dispose of contents/container to accredited waste

processor

:

Extra sentences Only for professional use



Supplemental label elements : Safety data sheet available on request.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

2.3 Other hazards

Other hazards which do not result

in classification

None known.

Additional information : None.

SECTION 3: Composition/information on ingredients

3.1 Substances : Mono-constituent substance

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Cat
di-Sodium tetraborate decahydrate	REACH:01-2119490790-32 EG:215-540-4 EU:005-011-01-1 CAS:1303-96-4	>= 10 - <= 12	Eye Irrit. 2,H319 Repr. !B, H360FD	2A 1B
Cu-EDTA	REACH:01-2119963944-23 EC:237-864-5 CAS:14025-15-1	>= 5 - <= 10	Acute Tox. 4, H302 Eye Irrit. 2, H319	

Specific concentration limits Name Identifiers Specific concentration levels di-Sodium tetraborate decahydrate REACH:01-2119490790-32 EG:215-540-4 EU:005-011-01-1 CAS:1303-96-4

See Section 16 for the full text of the H statements declared above.

Occupational exposure limits, if available, are listed in Section 8.

Remarks	:	This product contains Boron (see section 7 and 11).
		The content is below the level required for classification of
		the product as toxic to reproduction.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with running water for at least
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		15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.
Inhalation	:	If inhaled, remove to fresh air. Get medical attention if you feel unwell.
Skin contact	:	Wash with plenty of soap and water. Get medical attention if irritation develops.
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or

inhaled.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding

fire.

Unsuitable extinguishing

media

: None identified.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or

mixture

: No specific fire or explosion hazard.

Hazardous combustion products: Decomposition products may include the following

materials: metal oxide/oxides, Avoid breathing dusts,



vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed

5.3 Advice for firefighters

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment (see Section 8).

For emergency responders : If specialized clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For

non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers. Inform the

relevant authorities if the product has caused

environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Avoid dust generation.

Using a vacuum with HEPA filter will reduce dust

dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal

contractor.

Large spill : Move containers from spill area. Prevent entry into

sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed

waste disposal contractor.

6.4 Reference to other sections : See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal

protective equipment.



See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Not for human or animal consumption.

Protective measures Put on appropriate personal protective equipment (see

> Section 8). As a precaution, keep exposure as low as possible for pregnant women, children and workers in reproductive age. Avoid dust generation. Do not breathe

dust.

Advice on general occupational

hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and

processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on

hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from: organic materials, oil and grease. Keep the product away from sources of heat and ignition

7.3 Specific end use(s)

Recommendations

Do not generate and inhale liquid fertilizer aerosols. Keep the product away from sources of heat and ignition

In addition to overalls, gloves and eye protection, use of efficient respiratory protection (P2/P3 respirators with a tight face seal) during discharge of fertilizer bags and maintenance of equipment is recommended to minimize inhalation exposure and to ensure safe-use during this

activity (see section 8).

Risk assessments show safe use during normal spreading of fertilizers containing below 5% of boron by tractor (liquid or granular) and backpack (liquid).

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.



8.1 Control parameters

Occupational exposure limits

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Borates, tetra, sodium salts, decahydrate	TWA 2 mg/m³ STEL 6 mg/m³	(Vacated) TWA 2 mg/m³	TWA 2 mg/m³	TWA 2 mg/m³ STEL 6 mg/m³

Legend : ACGIH – American Conference of Governmental

Industries Hygienists

OSHA – Occupational Safety and Health Administration NIOSH IDLH: National Institute for Occupational Safethy

and Health

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents)

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/PNECs

Product/ingredient name	Туре	Exposure	Value	Used in	Exposure time
Cu-EDTA	DNEL	Inhalat ory human	1,8mg/ m³	Workers Workers (Industry)	Chronic- Systemic effects
	DNEL	Human dermal	3.750 mg/kg bw/day	Workers Workers (Industry)	Chronic- Systemic effects

PNECs



Product/ingredient name	Туре	Compartment Detail	Value	Exposure time
Cu-EDTA	PNEC	Fresh water	2,95 mg/l	Short-term (single instance).
	PNEC	Marine water	0,3 mg/l	Short-term (single instance)
	PNEC	Sewage Treatment Plant		
	PNEC	Soil	0,21 mg/kg	Short-term (single instance).

8.2 Exposure controls

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapor or

mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or

statutory limits.

Individual protection measures

Hygiene measures : A washing facility or water for eye and skin cleaning

purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before

reusing.

Eye/face protection: Safety eyewear complying with an approved standard

should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists,

gases or dusts.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates

this is necessary. For general applications, we

recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the

glove material.

> 8 hours (breakthrough time): nitrile rubber, CEN: EN374.

Body protection: Personal protective equipment for the body should be

selected based on the task being performed and the risks

involved.

Other skin protection : Appropriate footwear and any additional skin protection

measures should be selected based on the task being performed and the risks involved and should be approved

by a specialist before handling this product.

Respiratory protection: Use respiratory protection with more than 94% efficiency

(P2, P3 or N95) and a tight face seal, when risk of

exposure to dust.



Environmental exposure controls: Emissions from ventilation or work process equipment

should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary

to reduce emissions to acceptable levels.

Personal protective equipment

(Pictograms)

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Other information :

This Product may damage fertility or the unborn child

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>

Physical state : Solid
Color : Brown-Red
Odor : Odorless.
Odor threshold : Not determined.

pH : 6-8 pH dissolution : 1%

Melting point/freezing point:Not determined.Initial boiling point and boiling:Not determined

range

Flash point:Not determinedEvaporation rate:Not determinedFlammability (solid, gas):Non-flammable

Upper/lower flammability or : Lower: Not determined explosive limits : Upper: Not determined

Vapor pressure:Not determinedVapor density:Not determinedRelative density:Not determinedWater solubility:Soluble in waterLog Pow:Not determined

Viscosity : Dynamic: Not determined
Kinematic: Not determined

Explosive properties: Non-explosive.

Oxidizing properties : None

9.2 Other informationNo additional information.

SECTION 10: Stability and reactivity

10.1 ReactivityNo specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : The product is stable by normal circumstances



10.3 Possibility of hazardous : Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid : Avoid contamination by any source including metals, dust

and organic materials.

10.5 Incompatible materials : Strong bases. Strong Acids

10.6 Hazardous decomposition : Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Products

Product/ingredient name	Method	Species	Result	Exposure	References
Disodium tetrabora	te, decahydrate (1303-96-4)			
	LD50 Oral	Rat	2.660 mg/kg	Not applicable.	
	LD50 Dermal	Rabbit	> 2.000 mg/kg	Not applicable.	
Cu-EDTA (14025-15-	-1)				
	LD50 Oral	Rat	890 mg/kg	Not applicable.	ECHA
	LC50 Inhalation Dusts and mist	Rat	> 5,3 mg/l	4 h	OECD436

Skin Corrosion/irritation: May cause skin irritation pH: 6-8

Serious eye damage/eye irritation : Category 2. Causes serious eye irritation

Respiratory of skin sensitization:No information availableInhalation:No information availableMutagenicity:No information availableCarcinogenicity:No information available

Fertility effects : May damage fertility or the unborn child

STOT- single exposure:No information availableSTOT - repeated exposure:No information availableAspiration hazard:No information availableEffects on or via lactation:No information availableOther adverse effects:No information available

SECTION 12: Ecological information

12.1 Toxicity

Product/ingred ient name	Method	Species	Result	Exposure	References
di-Sodium tetrabo	rate decahydrate (130	3-96-4)			
	LC50	Fish 1	100 - 1.000 mg/l	96 h	EC50
	EC50	Daphnia 1	141 mg/l	48h	EC50
	LC50	Fish 2	1900 mg/l		LC50



	Toxicity threshold	Algae 1	158 mg/l	96 h	EC50
Cu-EDTA					
	Acute LC50	Fish	555 mg/l	96 h	ECHA

12.2 Persistence and degradability

Persistence and degradability : Soluble in water, Persistence is unlikely

12.3 Bioaccumulative potential

Product/ingredient name	
di-Sodium tetraborate decahydrate (1303-96-4)	No ability for bioaccumulation
Cu-ETDA	n-octanol/water log kow <4,5 , does not significantly accumulate in organisms

12.4 Mobility in soil

Cu-ETDA : The Organic Carbon normalized adsorption: 1(ECHA)

di-Sodium tetraborate decahydrate : Will likely be mobile in the environment due to its water

solubility. May harm for plant grow, flowering and fruits

12.5 Results of PBT and vPvB assessment

di-Sodium tetraborate decahydrate

This mixture is not considered persistent, bioaccumalive and toxic (PBT)/ very persistent and very bioaccumulate (vPvB)

12.6 Other adverse effects : Data are not available

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized

wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless



fully compliant with the requirements of all authorities with

jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product

is not regarded as hazardous waste, as defined by EU

Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation
06 10 99	wastes containing hazardous
	substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimized

wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when

recycling is not feasible.

Special precautions : This material and its container must be disposed of in a

safe way.

Care should be taken when handling emptied containers

that have not been cleaned or rinsed out.

Empty containers or liners may retain some product

residues.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulation: ADR/RID		
14.1 UN number		Not regulated.
14.2 UN proper shipping name		Not applicable.
14.3 Transport hazard class(es)		Not applicable.
14.4 Packing group		Not applicable.
14.5 Environmental hazards		No.
Additional information		
Regulation: AND		
14.1 UN number		Not regulated.
14.2 UN proper shipping name		Not applicable.
14.3 Transport hazard class(es)		Not applicable.
14.4 Packing group		Not applicable.
14.5 Environmental hazards		No.
Additional information		
Danger code	:	Not applicable.
	l	
Regulation: IMDG		
14.1 UN number		Not regulated.
14.2 UN proper shipping name		Not applicable.
14.3 Transport hazard class(es)		Not applicable.
14.4 Packing group		Not applicable.
14.5 Environmental hazards		No.
Additional information		
Marine pollutant	:	No.



Regulation: IATA		
14.1 UN number		Not regulated.
14.2 UN proper shipping name		Not applicable.
14.3 Transport hazard class(es)		Not applicable.
14.4 Packing group		Not applicable.
14.5 Environmental hazards		No hazards identified
Additional information		
Marine pollutant	:	No.

14.6 Special precautions for user : Transport within user's premises: Ensure that persons

transporting the product know what to do in the event of

an accident or spillage.

14.7 Transport in bulk according to

IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

15.1.1 EU Regulations

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV REACH- List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Disodium tetraboric anhydrous (EC215-540-4, CAS13	Toxic to reproduction	Candidate	ED/30/2010	2010-06-18

Not applicable.

EU Regulation (EC) No.
1907/2006 (REACH) Annex XVII
- Restrictions on the manufacture, placing on the market and use of

certain dangerous substances,

mixtures and articles

Other EU regulations

Europe inventory : All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

15.1.2 National regulations



Take care that all national regulations are followed.

15.2 Chemical Safety Assessment : Complete.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

[Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

DMEL = Derived Minimal Effect Level

EC50 = Median effective concentration

LC50 = Concentration that leads to death in 50% of the

test population

LD50 = Dose that leads to death in 50% of the test

population

CLP-specific Hazard statement

N/A = Not available

PNEC = Predicted No Effect Concentration

REACH= Rule (EG) nr. 1907/2006 for registration and assessment of and authorization of chemical products

RRN = REACH Registration Number

SGG = Segregation Group

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative

bw = Body weight

Key data sources : EU REACH ECHA/IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

<u>Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

Classification	Justification
Not classified.	

Full text of abbreviated H statements

H302	Harmful if swallowed.	
H319 Causes serious eye irritation.		
H332	Harmful if inhaled.	
H360	May damage fertility or the unborn child.	
H360FD May damage fertility. May damage the unborn chils		

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY oral - Category 4
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Acute Tox. 4	ACUTE TOXICITY inhalation - Category 4
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B



Training advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the use