SAFETY DATA SHEET

1. Identification of the substance or agent and the company or business

1.1 Identification of the substance or agent:

SAGROL® NF

1.2 Use of the substance or agent: For cleaning sprayers.

1.3 Manufacturer/importer identification:

Name or trade name: BIOSFOR, spol. s r.o.

Place of business or registered address: Slepotice 36, 530 02 Pardubice

Company ID number: 25986988

Phone: +420 466 798 180

Fax: +420 466 798 181

Name or trade name of the supplier: CHEMAP AGRO s.r.o.

Place of business or registered address: Dašice 475, 533 03 Dašice

Company ID number: 27482308

Phone: +420 466 670 750

Fax: +420 466 670 893

E-mail: vladimir.cech@chemap.cz

1.4 Emergency phone number: +420 224 915 402, +420 224 919 293 at any time

2. Hazards identification

Classified as hazardous.

Classification: C; R34
Xi; R37

3. Composition or information on ingredients

3.1 Composition:

3.2 Hazardous substances contained in an agent that is classified as hazardous.

3.4

Classification

Name	Concentration in %	CAS	EC (EINECS)	Hazard symbol	R-phrases	S-phrases
Sodium triphosphate	18-19	7758-29-4	231-838-7	Xi	36/37/38	28
Sodium percarbonate	15	15630-89-4	239-707-6	Xn, Xi, O	8-22-36/38	(1/2-)22-24/25-28
Sodium metasilicate	30	10213-79-3	229-912-9	C	34-37	(1/2-)13-24/25-36/37/39

3.5 Name and registration number: see section 3.1

3.6 Chemical nature of substances in accordance with Article 15 of Directive 1999/45/EC or footnotes to section 3.3:
The full text of the R-phrases is given in section 16.

4. First aid measures

4.1 General instructions: In case of ingestion and eye contact, seek medical attention immediately.

4.2 Inhalation: Move the affected person to fresh air, keep at rest and protect from cold.
4.3 Skin: Wash immediately with soap and water.
4.4 Eyes: Rinse open eyes with lukewarm water for at least 15 minutes; seek medical attention.
4.5 Ingestion: Drink plenty of water, move to fresh air and seek medical attention immediately.
4.6 Other information: If symptoms persist, seek medical attention.

5. Fire-fighting measures

5.1 Suitable extinguishing media: Non-flammable substance; adapt the extinguishing media to the environment.
5.2 Unsuitable extinguishing media: None.
Special hazards: None.
5.3 Special protective equipment for firefighters: None.
5.4 Other information: None.

6. Accidental release measures

6.1 Personal precautions: Avoid contact with skin.
6.2 Environmental precautions: Prevent entry into sources and receiving bodies of surface water and groundwater.
6.3 Recommended cleaning and containment methods: Sweep up the contaminated material, transfer it to a suitable container and have it disposed of as waste in accordance with Act No. 185/2001 Coll., as amended.
6.4 Note: Use the personal protective equipment listed in section 8; dispose of according to section 13.

7. Handling and storage

7.1 Handling: Observe the instructions for the safe handling of the substance (S-phrases).
Environmental precautions: Prevent entry into sewage systems and groundwater.
7.2 Storage: Store in original well-sealed containers in a dry and cool place. The product is hygroscopic. Store separately from food and feed at a temperature of +5 to +40 °C.
Packaging materials: PE.
7.3 Specific uses: None.

8. Exposure control / personal protection

8.1 Exposure limit values: No PEL data is available,
No MAC data is available.
8.2 Limiting exposure: Equip the workplace with ventilation systems.
8.2.1 Limiting worker exposure: Use personal protective equipment.
8.2.1.1 Respiratory protection: Protective face mask or respirator with a filter against alkaline dust.
8.2.1.2 Hand protection: Protective gloves – material: nitrile 0.1 mm, breakthrough time 480 min.
8.2.1.3 Eye protection: Tightly sealed safety goggles.
8.2.1.4 Skin protection: Protective clothing.
8.2.2 Limiting environment exposure: Prevent entry into sewage systems and groundwater.

9. Physical and chemical properties

9.1 General information:
State of matter (at 20 °C): Solid – powder.
Colour: White.
Smell or odour: Odourless.
9.2 Important health, safety and environmental information:
pH value (at °C): 9–12.
Melting point (temperature range; °C): N/A.
Boiling point (temperature range; °C): N/A.
Flash point (°C): N/A.
Flammability: N/A.
Pyrophoricity: N/A.
Explosive limits: upper limit (% of vol.): N/A.
lower limit (% of vol.): N/A.
Oxidising properties: None.
Vapour pressure (at 20 °C): N/A.
Density (at 20 °C): 700–900 kg/m^3.

Solubility (at 20 °C):
- in water: More than 50 g/l.
- in fats: Insoluble.

(including oil specifications)
Partition coefficient n-octanol/water: N/A.
Evaporation rate: N/A.
9.3 Other information: None.

10. Stability and reactivity

Conditions under which the product is stable: Normal pressure and temperature.
10.1 Conditions to avoid: Absorption of air humidity.
10.2 Materials to avoid: None.
10.3 Hazardous decomposition products: None.

11. Toxicological information

11.1 Acute toxicity:
- LD_{50}, oral, rat ($mg.kg^{-1}$): 3900 (for a concentration of 93 %),
- LD_{50}, dermal, rat or rabbit ($mg.kg^{-1}$): data not available,
- LC_{50}, inhalation, rat, for aerosols or particles ($mg.kg^{-1}$): data not available,
- LC_{50}, inhalation, rat, for gases and vapours ($mg.kg^{-1}$): data not available.

Toxicokinetics: Not known.
Metabolism and distribution: Not known.
Sensitisation: Not proven.
Carcinogenicity: No known carcinogenic effects.
Mutagenicity: No known mutagenic effects.
Reproductive toxicity: Not proven.
Human experience: Corrosive effects on skin and mucous membranes.
Animal testing: See section 11.1
Other information: None.

12. Ecological information

Acute toxicity to aquatic organisms:
12.1 Ecotoxicity:
- LC_{50}, 96 h, fish ($mg.kg^{-1}$): data not available,
- EC_{50}, 48 h, daphnia ($mg.kg^{-1}$): data not available,
- IC_{50}, 72 h, algae ($mg.kg^{-1}$): data not available.

12.2 Mobility: No data available.
12.3 Persistence and degradability: No data available.
12.4 Bioaccumulative potential: No data available.
12.5 Results of PBT assessment: Not carried out.
12.6 Other adverse effects: None.

13. Disposal considerations

13.1 Safe waste management: Transfer to a spare container and hand over to an authorised disposal company.
13.2 Disposal of the substance/agent: Dispose of in accordance with Act No. 185/2001 Coll. on Waste, as amended, and related acts.
Disposal of contaminated packaging: Rinse out with water and hand over for recycling.
13.3 Legal provisions: Act No. 185/2001 Coll. on Waste, as amended, and related acts.

14. Transport information

14.1 Preventive measures for transport inside or outside of the company: Transport in ADR-compliant packaging.

Land transport

ADR/RID:	Class: 8	Packing group: III	
Hazard identification number:	80	UN number:	3262
Note:		Hazard label:	8

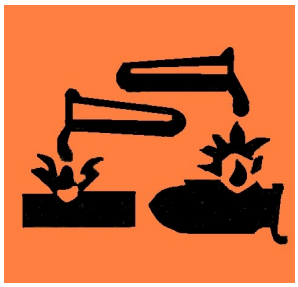
CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium triphosphate, sodium percarbonate, sodium metasilicate)

15. Regulatory information regarding the substance or the agent

15.1 Labelling of packaging:

Hazard symbol:

C



Corrosive

R-phrases: R 34 Causes burns.
R 37 Irritating to respiratory system.

S-phrases: S 13 Keep away from food, drink and animal feedingstuffs.
S 24/25 Avoid contact with skin and eyes.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28 After contact with skin, wash immediately with plenty of water.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous substances: Sodium triphosphate, sodium percarbonate, sodium metasilicate.

15.2 Specific provisions for the protection of persons or the environment at an EC level: None.

15.3 Legislation that applies to the substance/agent:
Act No. 356/2003 Coll., as amended, and related acts.
Act No. 156/1998 Coll., as amended, and related acts.
Decree No. 273/1998 Coll., as amended, and related acts.
Decree No. 274/1998 Coll., as amended, and related acts.
Decree No. 474/2000 Coll., as amended, and related acts.
Regulation (EC) No. 2003/2003.
Act No. 185/2001 Coll. on Waste, as amended, and related acts.
Government Regulation No. 178/2001 Coll. determining the conditions for the protection of employees' health at work, as amended, and related acts.
Act No. 86/2002 Coll. on air protection, as amended, and related acts.
Act No. 477/2001 Coll. on packaging, as amended, and related acts.
Act No. 59/2006 Coll. on prevention of major accidents, as amended, and related acts.
Act No. 258/2000 Coll. on protection of public health, as amended, and related acts.
Agreement of 30 September 1957 concerning the International Carriage of Dangerous Goods by Road, as amended.
Regulation (EC) No. 1907/2006.

16. Other information

R-phrases: R 8 Contact with combustible material may cause fire; R 22 Harmful if swallowed; R 34 Causes burns; R 36/38 Irritating to eyes and skin; R 36/37/38 Irritating to eyes, respiratory system and skin; R 37 Irritating to respiratory system.

Instructions for employee training: Conduct training according to the applicable OSH regulations, fire regulations, the Agreements Concerning the International Carriage of Dangerous Goods by Rail and by Road (ADR/RID), packaging regulations and waste regulations, especially with regard to health, safety and environmental protection.

Recommended restrictions on use: None.

Contact for providing technical information: +420 737 935 852

Sources used to compile the safety data sheet: Safety data sheet of the manufacturer.

New, amended or deleted information: New name.

The information contained in this Safety Data Sheet relates only to the product listed and is to the best of our current knowledge and experience and may not be exhaustive. The user is responsible for handling the product in accordance with applicable laws.