

LABEL

PLACE AND DATE OF ISSUE: in BRATISLAVA on March 20, 2023

According to Annex III to Regulation (EU) 2019/1009 of the European Parliament and of the Council (2021/C 119/01)

Production date *:

Batch number *:

*(if not specified see accompanying documents)



STERCOSUL® N (S) = 12 (65)

Inorganic fertilizer with one primary macronutrient (Nitrogen - N) and with one secondary macronutrient (Sulphur - S) in solution form.

Designation of PFCs (Product Function Categories):

PFC 1(C)(I)(b)(i): STRAIGHT LIQUID INORGANIC MACRONUTRIENT FERTILIZER

LIST OF ALL INGREDIENTS

Ammonium Thiosulphate ⁽¹⁾ (CAS No.7783-18-8)
Ammonium Sulphate ⁽¹⁾ (CAS No.7783-20-2)
Ammonium Sulphite ⁽¹⁾ (CAS No.10196-04-0)

⁽¹⁾ Virgin material substances and mixtures

MACRONUTRIENTS COMPOSITION

TOTAL NITROGEN (N): 12.0% (m/m)
Amoniacal Nitrogen (N-NH₄): 12.0% (m/m)
SULPHUR TRIOXIDE (SO₃): 65.0% (m/m) (= 26% S)
Water Soluble

PHYSICAL AND CHEMICAL PROPERTIES

Colour: colourless - light yellow
Appearance: clear liquid without visible impurities
Odors: may have a slight odor of ammonia or sulphur dioxide

Hydrocarbons odors: free of hydrocarbons odors

Boiling Point ⁽¹⁾: 110.0°C

Solubility in water: complete

Specific Gravity ⁽¹⁾: 1.325 - 1.375 (water = 1)

pH: 6.5 - 8.5

Explosiveness: non-explosive

Crystallization point ⁽²⁾: from -5°C to +5°C

Freezing point ⁽²⁾: from -35°C to -25°C

Salt out temperature ^{(2), (3)}: from +10°C to +30°C

⁽²⁾ Depending upon concentration

⁽³⁾ The temperature at which the formed crystals melt back to a liquid

STORAGE AND HANDLING

STERCOSUL® is to be stored in closed, intact original containers in dry places with sufficient ventilation protected against direct weather conditions and sunlight as well as from the heat. The product must be stored away from sources of radiating heat, ignition, sparking, open sparking, open fire and strong oxidation materials, acids and bases. Contact with acids will cause the release of sulphur dioxide or hydrogen sulphide and can be a severe respiratory

hazard. Contact with alkalis will cause the release of ammonia and can be a severe strong oxidizers can cause explosions or the release of ammonia, hydrogen sulphide or sulphur oxides. The solution of ammonium thiosulphate is not compatible with materials such as gold, copper, zinc, tin or their alloys (i.e. bronze, brass, galvanized metals etc.) and some types of mild steel. These materials may not be used at the construction of the systems of product handling nor as a material for storage containers. Store out of reach of children and food, beverages and fodder plants.

Optimal storage temperature: from +5°C to +35°C.

SAFETY AND HEALTH PRECAUTIONS AT WORK

- Do not apply STERCOSUL® directly to the germinating seeds;
- After STERCOSUL® application always water sufficiently to reduce the risk of damage to the plant;
- Do not use STERCOSUL® for foliar fertilization of apple trees;
- Before using STERCOSUL® carefully consider suitability of application for individual plant stage of development;
- Small foliar burning of crops may occur even at the most suitable application. If you are trying out a new combination of active ingredients or application methods, new always conduct the test on smaller area. Experimental testing is recommended a smaller when mixing with pesticides, herbicides or other supportive substances to determine physical compatibility of substances;
- When mixing STERCOSUL® with other nitrogen fertilizers and pesticides, crop phytotoxicity must be avoided;
- Avoid using STERCOSUL® (by air or land) during the part of the day when the temperatures are high (temperatures above 20°C and relative humidity below 30%);
- STERCOSUL® must not be mixed with acids or other acid substances below pH 6,0;
- Applying STERCOSUL® avoid inhalation of aerosols;
- Set of information (safety, ecological, toxicological, legal...) regarding handling of STERCOSUL® can be found in the Material Safety Data Sheet (MSDS);
- MSDS is primarily intended for the workers who handle (or will handle) STERCOSUL® as well as workers responsible or safety.

INSTRUCTIONS FOR PROTECTION OF BEES

- Application of STERCOSUL® is possible only during evening hours after the end of bee flight activity (after 6 pm). In case of external temperature decrease under 13°C, it is possible to apply STERCOSUL® without limitation (bees are not active);
- Do not apply STERCOSUL® directly on the flowering plants during the flight activity of bees.

LABEL

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MASS QUANTITY (netto):



INSTRUCTIONS AND APPLICATION RATES

STERCOSUL® is a high analysis sulphur fertilizer ideal for S crop nutrition, it may be applied alone or blended with fluid formulations to increase the S and N content. It can be used for the treatment and reclamation of saline and alkaline soils. The addition of STERCOSUL® to urea-ammonium nitrate solutions increases the efficiency of N applied to slow gaseous losses of ammonia and leaching of nitrates.

GENERAL DOSAGE

In order to achieve the best results, it is suitable to apply with UAN (urea ammonium nitrate) or in combination with other nitrogenous fertilizers to achieve the N:S ratio (3:1 to 4:1). Generally, apply 5-80 kg of sulphur (approximately 15 -230 L of STERCOSUL®) per 1 hectare per year depending on the conditions of cultivation, type of soil and type of plant. STERCOSUL® application options: by spraying on a leaf, fertilization below heel, pre-seeding fertilization, drip irrigation, furrow application, hydroponic technologies.

GENERAL INFORMATION

Product classified under the REGULATION (EU) 2019/1009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 June 2019. For professional use only.

CONTENTS OF HEAVY METALS AND CHLORIDES

Heavy Metals: Arsenic: < 0.02 mg/kg DM; Cadmium: < 1.00 mg/kg DM; Chromium: < 0.50 mg/kg DM; Lead: < 1.00 mg/kg DM; Mercury: < 0.05 mg/kg DM; Selenium: < 0.20 mg/kg DM; Nickel: < 2.00 mg/kg DM

Other Metals: Copper: < 5.00 mg/kg DM; Zinc: < 5.00 mg/kg DM

Chlorides: Poor in Chlorides: < 0.001 g/kg DM

Note: mg/kg DM = milligrams per kilogram of dry matter

RECOMMENDED DOSING (without other nitrogenous fertilizers)

CROP	PURPOSE	FORM OF APPLICATION	PERIOD OF APPLICATION	RECOMMENDED DOSE	NUMBER OF APPLICATIONS
CEREALS	Increase of harvest, increase of protein content, quality improvement	By spraying	Pre-seeding fertilization	20-30 L/ha	1
FODDER PLANTS	Increase of harvest, vitality improvement	By spraying	Pre-seeding fertilization	20-30 L/ha	1
	Increase of harvest, vitality improvement	By spraying	After mowing or before beginning of re-growth	1 x 40-50 L/ha 2 x 20-25 L/ha	1-2
SUNFLOWER	Increase of harvest, increase of oil content, quality improvement	By spraying	Pre-seeding fertilization	30-40 L/ha	1
	Increase of harvest, increase of oil content, quality improvement	Inter-line application	From 6th stage of leaves to 12th stage of leaves	50-80 L/ha	1
OILSEED RAPE	Increase of harvest, increase of oil content, quality improvement	By spraying	Pre-seeding fertilization	30-50 L/ha	1
CABBAGE-LIKE, LEAF AND ONION-LIKE VEGETABLE	Increase of harvest, quality improvement	By spraying	Pre-seeding fertilization	30-50 L/ha	1
GRASS AND GRASSLANDS	Vitality improvement	By spraying	During the growing season	15-35 L/ha	1

Contact company or company's distributor for more specific recommendations.