



Sangral Urea phosphate

Safety Data Sheet

According to Regulation (EU) 2015/830 (REACH Annex II)

Date of issue: 2/12/2019 Revision date: 2/12/2019 Supersedes: 10/5/2018 Version: 1.0

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

1.1. Product identifier

Product form	: Substance
Trade name	: Sangral Urea phosphate
EC-No.	: 225-464-3
CAS-No.	: 4861-19-2
REACH registration No	: 01-2119489460-34-0009
Product code	: BE04-000018_020_EUR
Formula	: CH4N2O.H3O4P
Product group	: Raw material

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

1.2.1. Relevant identified uses

Title	Use descriptors
(ES Ref.: 1)	PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, ERC2, ERC5
(ES Ref.: 2)	PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC11, PROC13, PROC14, PROC15, ERC8a, ERC8b, ERC8d, ERC8e
(ES Ref.: 3)	ERC8a, ERC8b, ERC8d, ERC8e

Full text of use descriptors: see section 16

1.2.2. Uses advised against

Title	Use descriptors	Reason
	PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, ERC2, ERC5	
	PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC11, PROC13, PROC14, PROC15, ERC8a, ERC8b, ERC8d, ERC8e	
	ERC8a, ERC8b, ERC8d, ERC8e	

1.3. Details of the supplier of the safety data sheet

Importer

SQM International
Houtdok-Noordkaai 25a
2030 Antwerpen
T +32 (3) 2039700 - F +32 (3) 2312782
product_safety@sqm.com - www.sqm.com

1.4. Emergency telephone number

Emergency number : Netherland: National Poisons Information Centre (+31) 088 756 666 / Belgium: Centre Anti-Poisons/Antigifcentrum (+32) 070 245 245
For Chemical Emergency Call CHEMTREC 24hr/day 7days/week: +1 703-741-5970
(collect calls accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Corr. 1B	H314
Full text of hazard classes and H-statements : see section 16	
Specific concentration limits:	
(10 =<C < 25)	Skin Irrit. 2, H315
(10 =<C < 25)	Eye Irrit. 2, H319
(25 =<C < 100)	Skin Corr. 1C, H314

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

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 .
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 or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).

2.3. Other hazards

Other hazards not contributing to the classification :

The product does not meet the PBT and vPvB classification criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Sangral Urea phosphate	(CAS-No.) 4861-19-2 (EC-No.) 225-464-3 (REACH-no) 01-2119489460-34-0009	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general :

Call a physician immediately. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation :

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact :

Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion :

Rinse mouth out with water. Drink plenty of water. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects :

Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation :

Dust from this product may cause severe irritation to the respiratory tract.

Symptoms/effects after skin contact :

Burns.

Symptoms/effects after eye contact :

Serious damage to eyes.

Symptoms/effects after ingestion :

Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media :

Use extinguishing media appropriate for surrounding fire. All extinguishing media allowed.

Unsuitable extinguishing media :

None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard :

Not flammable.

Explosion hazard :

Not explosive.

Hazardous decomposition products in case of fire :

Toxic fumes may be released. Thermal decomposition generates : Nitrogen oxides. Phosphorus oxides. Carbon monoxide. Carbon dioxide. ammonia.

5.3. Advice for firefighters

Precautionary measures fire :

Consider evacuation.

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Firefighting instructions	: Keep upwind.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. EN 469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking. Ventilate area. Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate spillage area. Evacuate danger area. Mark out the danger area with appropriate signs. Do not touch or walk on the spilled product.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Keep public away from danger area.

6.2. Environmental precautions

Do not allow into drains or water courses. Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters. Prevent entry to sewers and public waters. Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

For containment : Use appropriate container to avoid environmental contamination. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters. Clean contaminated surfaces with an excess of water.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations ". For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Keep container closed when not in use.
Hygiene measures : Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Always wash hands after handling the product. Wash contaminated clothing before reuse. Remove contaminated clothes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Keep container closed when not in use. Opened containers must be carefully closed and kept upright to avoid leakage. Protect from moisture.
Incompatible materials : Strong oxidizing agent. Reducing agents. Bases.
Heat and ignition sources : Keep away from heat. Keep away from ignition sources.
Storage area : Store tightly closed in a dry, cool and well-ventilated place.
Special rules on packaging : Meet the legal requirements.

7.3. Specific end use(s)

Product exposure scenario(s).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information : There exist no exposure limits for this material

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Effective contaminant extraction. Training staff on good practice. Management/supervision in place to check that RMMs on place are being used correctly and OCs followed. Local exhaust is recommended where dust may occur.

Hand protection:

Protective gloves. Nitrile rubber gloves

Eye protection:

Safety glasses with side shields

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P2

Environmental exposure controls:

Do not allow to enter drains or water courses. Assure that emissions are compliant with all applicable air pollution control regulations.

Other information:

Product exposure scenario(s).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline powder.
Colour	: White.
Odour	: odourless.
Odour threshold	: Not applicable
pH	: 2.75 (0.05% Aqueous solution)
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: > 200 °C 1013 hPa / Test method EU A.1/ (OECD 102 method)
Freezing point	: Not applicable
Boiling point	: > 200 °C 1013 hPa / Test method EU A.2/ (OECD 103 method)
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: < 0.0011 Pa at 20 °C/ Test method EU A.3/ (OECD 109 method)
Vapour pressure at 50 °C	: Not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: 1.77 at 20 °C/ (OECD 104 method)
Solubility	: Soluble in water. Water: > 100 g/l at 20 °C
Log Pow	: -1.73 at 20 °C
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable

9.2. Other information

Additional information : None

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Hygroscopic product. Avoid high temperatures. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents. Reducing agents. Bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. thermal decomposition may produce : Nitrogen oxides. Phosphorus oxides. Carbon monoxide. Carbon dioxide. Ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

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Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Sangral Urea phosphate (4861-19-2)

LD50 oral rat 2600 mg/kg (OECD 423 method)

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 2.75 (0.05% Aqueous solution)

Additional information : (OECD 435 method)

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 2.75 (0.05% Aqueous solution)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Additional information : OECD 471 METHOD

(OECD 476 method)

(OECD 473 method)

Carcinogenicity : Not classified

Sangral Urea phosphate (4861-19-2)

IARC group Not listed

Reproductive toxicity : Not classified

Sangral Urea phosphate (4861-19-2)

NOAEL (animal/male, F0/P) \geq 1500 mg/kg (OECD 422 method)

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Sangral Urea phosphate (4861-19-2)

NOAEL (oral, rat, 90 days) 250 mg/kg bodyweight/day (OECD 422 method)

Aspiration hazard : Not classified

Toxicokinetics, metabolism and distribution : Possible cutaneous absorption: Low potential . Oral: 50%, Dermal: 10-50%, Inhalation:100%.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

Sangral Urea phosphate (4861-19-2)

LC50 fish 1 > 9100 mg/l

EC50 Daphnia 1 > 100 mg/l Test method EU C.2/ (OECD 202 method)

EC50 72h algae (1) > 100 mg/l Test method EU C.3/ (OECD 201 method)

NOEC (chronic) 47 mg/l 192h/ Microcystis aeruginosa

12.2. Persistence and degradability

Sangral Urea phosphate (4861-19-2)

Persistence and degradability Readily biodegradable.

Biochemical oxygen demand (BOD) Not applicable

Chemical oxygen demand (COD) Not applicable

12.3. Bioaccumulative potential

Sangral Urea phosphate (4861-19-2)

Log Pow -1.73 at 20 °C

Bioaccumulative potential Low bioaccumulation potential.

12.4. Mobility in soil

Sangral Urea phosphate (4861-19-2)

Ecology - soil Product adsorbs little onto the soil.

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Do not allow into drains or water courses. Do not allow material to contaminate surface water system.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1759	1759	1759	1759	1759
14.2. UN proper shipping name				
CORROSIVE SOLID, N.O.S. (Urea phosphate)	CORROSIVE SOLID, N.O.S. (Urea phosphate)	Corrosive solid, n.o.s. (Urea phosphate)	CORROSIVE SOLID, N.O.S. (Urea phosphate)	CORROSIVE SOLID, N.O.S. (Urea phosphate)
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C10
Special provisions (ADR) : 274
Orange plates :



Transport by sea

Special provisions (IMDG) : 274
IBC special provisions (IMDG) : B2, B4

Air transport

Special provisions (IATA) : A3

Inland waterway transport

Classification code (ADN) : C10
Special provisions (ADN) : 274

Rail transport

Special provisions (RID) : 274

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

IBC code : Not applicable.

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Sangral Urea phosphate is not on the REACH Candidate List

Sangral Urea phosphate is not on the REACH Annex XIV List

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H314	Causes severe skin burns and eye damage.
Full text of use descriptors	
ERC2	Formulation into mixture
ERC5	Use at industrial site leading to inclusion into/onto article
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
ERC8e	Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
PROC11	Non-industrial spraying
PROC13	Treatment of articles by dipping and pouring
PROC14	Tabletting, compression, extrusion, pelettisation, granulation
PROC15	Use as laboratory reagent
PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC5	Mixing or blending in batch processes
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

SDS EU (REACH Annex II)

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