

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Sangral Foliar 14-7-34 + 2MgO+TE
Product code	: ES01-002249_308c_EUR
Type of product	: Fertilizers
Product group	: Blend

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

1.2.1. Relevant identified uses

Main use category	: Fertilizers, Agriculture, forestry, fishery, Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
Industrial/Professional use spec	: Fertilizers Formulation of preparations
Use of the substance/mixture	: Fertilizers Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
Function or use category	: Fertilisers

1.2.2. Uses advised against

Restrictions on use	: None known
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1.3. Details of the supplier of the safety data sheet

Supplier

SQM Iberian S.A.
C / Provença, 251 Principal 1°
08008 Barcelona - España
T +34 934 877 806 - F + 34 902 412 459
product_safety@sgm.com - www.sgm.com

1.4. Emergency telephone number

Emergency number	: For Chemical Emergency Call CHEMTREC 24hr/day 7days/week: +1 703-741-5970 (collect calls accepted)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Ox. Sol. 3	H272
Eye Dam. 1	H318

Full text of hazard classes and H-statements : see section 16

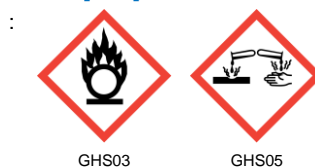
Adverse physicochemical, human health and environmental effects

May intensify fire; oxidiser. Causes serious eye damage.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS03

GHS05

Signal word (CLP)	: Danger
Hazardous ingredients	: Potassium Sulfate TP
Hazard statements (CLP)	: H272 - May intensify fire; oxidiser. H318 - Causes serious eye damage.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 - Keep away from clothing and other combustible materials. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.

Sangral Foliar 14-7-34 + 2MgO+TE

Safety Data Sheet

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

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P370+P378 - In case of fire: Use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water. to extinguish.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium Sulfate TP	(CAS-No.) 7778-80-5 (EC-No.) 231-915-5 (REACH-no) 01-2119489441-34	3 - 65	Eye Dam. 1, H318
Urea phosphate	(CAS-No.) 4861-19-2 (EC-No.) 225-464-3 (REACH-no) 01-2119489460-34	1 - 10	Skin Corr. 1B, H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Urea phosphate	(CAS-No.) 4861-19-2 (EC-No.) 225-464-3 (REACH-no) 01-2119489460-34	(10 =<C < 25) Skin Irrit. 2, H315 (10 =<C < 25) Eye Irrit. 2, H319 (25 =<C < 100) Skin Corr. 1B, H314

Comments : Hazard classification of this material is based on the worst possible case

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell. 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 : Wash skin with plenty of water.
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. Call a poison center or a doctor if you feel unwell.

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 of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact : May cause skin irritation.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : On ingestion in large quantities: Irritation of the gastric/intestinal mucosa.

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

Treat symptomatically. In the event of inhalation of decomposition products : Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.
Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May intensify fire; oxidiser.

Sangral Foliar 14-7-34 + 2MgO+TE

Safety Data Sheet

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

Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition generates : Nitrogen oxides. Nitrites. Phosphorus oxides. Potassium oxides.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with eyes.

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".

6.2. Environmental precautions

Do not allow into drains or water courses. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Do not absorb with saw-dust or any other combustible absorbent material. Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials: Reducing agents, Flammable materials, Combustible materials. Keep container closed when not in use. Store in a well-ventilated place.

Incompatible materials : Flammable or combustible materials. reducing materials. Strong acids.

7.3. Specific end use(s)

Fertilizers.

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.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Sangral Foliar 14-7-34 + 2MgO+TE

Safety Data Sheet

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

Environmental exposure controls:

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline powder.
Colour	: Red.
Odour	: odourless.
Odour threshold	: Not applicable
pH	: No data available
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Not applicable
Vapour pressure at 50 °C	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: Not applicable
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Oxidizer. Test O.1 Test for oxidizing solids.
Explosive limits	: Not applicable

9.2. Other information

Additional information : None

SECTION 10: Stability and reactivity

10.1. Reactivity

May cause or intensify fire; oxidiser.

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

Avoid contact with hot surfaces, heat, flames or sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials. Flammable materials. Reducing agents. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce : Nitrites. Phosphorus oxides. Potassium oxides. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Urea phosphate (4861-19-2)

LD50 oral rat	2600 mg/kg bodyweight (OECD 423 method)
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Sangral Foliar 14-7-34 + 2MgO+TE

Safety Data Sheet

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

Potassium Sulfate TP (7778-80-5)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 425 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method) / EU B.3
LC50 inhalation rat (mg/l)	> 1.2 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

Potassium Sulfate TP (7778-80-5)	
NOAEL (animal/male, F0/P)	>= 1500 mg/kg bodyweight (OECD 422 method)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Urea phosphate (4861-19-2)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight/day (OECD 422 method)

Potassium Sulfate TP (7778-80-5)	
NOAEL (subacute, oral, animal/male, 28 days)	>= 1500 mg/kg bodyweight (OECD 422 method)
Additional information	(OECD 453 method)

Aspiration hazard	: Not classified
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SECTION 12: Ecological information

12.1. Toxicity

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

Urea phosphate (4861-19-2)	
LC50 fish 1	> 9100 mg/l (Published data)
EC50 Daphnia 1	> 100 mg/l EU C.2 / (OECD 202 method)
EC50 72h algae (1)	> 100 mg/l EU C.3 / (OECD 201 method)

Potassium Sulfate TP (7778-80-5)	
LC50 fish 1	680 mg/l EPA 600/4-90/027, Pimephales promelas
EC50 Daphnia 1	720 mg/l EPA 600/4-90/027
EC50 96h algae (1)	> 100 mg/l

12.2. Not persistent

Sangral Foliar 14-7-34 + 2MgO+TE	
Not persistent	Contains no substances known to be hazardous to the environment.

Urea phosphate (4861-19-2)	
Not persistent	Not persistent.

Potassium Sulfate TP (7778-80-5)	
Not persistent	Not applicable.

12.3. Bioaccumulative potential

Sangral Foliar 14-7-34 + 2MgO+TE	
Bioaccumulative potential	Low bioaccumulation potential.

Urea phosphate (4861-19-2)	
Log Pow	-1.73 at 20 °C
Bioaccumulative potential	Low bioaccumulation potential.

Potassium Sulfate TP (7778-80-5)	
Log Pow	Not applicable
Log Kow	Not applicable
Bioaccumulative potential	Not applicable.

Sangral Foliar 14-7-34 + 2MgO+TE

Safety Data Sheet

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

12.4. Mobility in soil

Sangral Foliar 14-7-34 + 2MgO+TE	
Ecology - soil	Expected to be highly mobile in soil.
Urea phosphate (4861-19-2)	
Ecology - soil	Product adsorbs little onto the soil.
Potassium Sulfate TP (7778-80-5)	
Ecology - soil	Low mobility (soil).

12.5. Results of PBT and vPvB assessment

Component	
Urea phosphate (4861-19-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Potassium Sulfate TP (7778-80-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : May cause eutrophication at very low concentration.






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

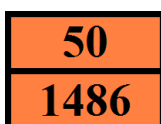
In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1486	1486	1486	1486	1486
14.2. UN proper shipping name				
POTASSIUM NITRATE (MIXTURE)	POTASSIUM NITRATE (MIXTURE)	Potassium nitrate (MIXTURE)	POTASSIUM NITRATE (MIXTURE)	POTASSIUM NITRATE (MIXTURE)
14.3. Transport hazard class(es)				
5.1	5.1	5.1	5.1	5.1
				
14.4. Packing group				
III	III	III	III	III
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) : O2
Orange plates :



- Transport by sea

Special provisions (IMDG) : 964, 967
IBC special provisions (IMDG) : B3

- Air transport

No data available

Sangral Foliar 14-7-34 + 2MgO+TE

Safety Data Sheet

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

- Inland waterway transport

Classification code (ADN) : O2

- Rail transport

No data available

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

IBC code : 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list $\geq 0,1\%$ / SCL

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
1.1	Product code	Modified	
2	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
3.2	Composition/information on ingredients	Added	
	General measures	Modified	
	General description	Modified	

Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

SDS EU (REACH Annex II)

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