P Fertilizer including single superphosphates and Single superphopsphate complex

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 03/03/2015 Revision date: 25/08/2017 Supersedes: 16/06/2016 Version: 3.0

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

1.1. Product identifier

Product form : Mixture

Product name : P Fertilizer including single superphosphates and Single superphopsphate complex

Product code : P06

Type of product : Fertilizer

Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Professional use

Use of the substance/mixture : Agriculture

Function or use category : Fertilisers

Title	Use descriptors
Professional use : Fertilizer (Source : Chemical safety report)	SU1, SU21, SU22, PC12, PROC5, PROC8b, PROC19, ERC8b, ERC8e

Full text of use descriptors : see section 16.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor
TIMAC AGRO UK Ltd
Rothamsted
Daniel Hall Building
AL5 2JQ HARPENDEN - UNITED KINGDOM
T +44 (0) 1582 958 444
info-fds@roullier.com

Manufacturer
TIMAC Agro France
27 avenue Franklin Roosevelt
P.O. Box BP 158
35408 Saint-Malo cedex - FRANCE
T +33 2 99 20 65 20
info-fds@roullier.com - www.timacagro.fr

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Europe/Middle-East/Africa	3E		+1-760-476-3961 (Access code : 333021)	(24/7)
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 1 H318

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP)	:	Danger
Hazardous ingredients	:	Single superphopsphate complex; Superphosphates, concd
Hazard statements (CLP)	:	H318 - Causes serious eye damage.
Precautionary statements (CLP)	:	P280 - Wear 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. P310 - Immediately call a POISON CENTER/doctor

2.3. Other hazards

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

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]
Single superphopsphate complex	(EC-No.) 938-989-4 (REACH-no) 01-2119994289-16-0001	>= 3	Eye Dam. 1, H318
Superphosphates, concd	(CAS-No.) 65996-95-4 (EC-No.) 266-030-3 (REACH-no) 01-2119493057-33	>= 3	Eye Dam. 1, H318

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	:	Prompt treatment is essential to minimize damage. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	:	Move to fresh air in case of accidental inhalation. Seek medical attention if ill effect develops.
First-aid measures after skin contact	:	Wash with water and soap as a precaution. If case of redness or irritation, call a doctor.
First-aid measures after eye contact	:	Wash immediately with plenty water (during 20 minutes), also under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms. If possible show him this sheet. Failing this, show him the packaging or label.
First-aid measures after ingestion	:	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. Seek medical attention if ill effect develops.

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

Symptoms/effects	:	(see section(s) : 2.1/2.3).
Symptoms/effects after eye contact	:	Causes serious eye damage.

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	:	water, carbon dioxide (CO2), powder and foam. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	:	None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Not flammable. Non oxidizing material according to EC criteria.
Hazardous decomposition products in case of fire	:	On combustion or on thermal decomposition (pyrolysis) releases : Sulphur oxides. Phosphorus oxides. toxic and corrosive vapours. Ammonia.

5.3. Advice for firefighters

Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing. EN 469. Self-contained breathing apparatus.
Other information	:	Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Evacuate area.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Do not get in eyes, on skin, or on clothing. Do not breathe dust. Evacuate unnecessary personnel. Mark the danger area. Mechanically ventilate the spillage area. Keep upwind. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

Emergency procedures : Ventilate area. Stop leak if safe to do so. Dike and contain spill.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Clean up immediately by sweeping or vacuum. Minimise generation of dust. Collect up the product and place it in a spare container suitably labelled.

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

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". 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. Do not breathe dust. Use personal protective equipment as required. Avoid contact with eyes. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : The floor of the depot should be impermeable and designed to form a water-tight basin. Comply with applicable regulations.

Storage conditions : Store in dry, cool, well-ventilated area. Protect from moisture. Keep out of reach of children.

Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Storage temperature : Store at ambient temperature

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

(see section(s) : 1.2. Relevant identified uses of the substance or mixture and uses advised against).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Single superphopsphate complex	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	31 mg/kg bodyweight/day Repeated dose toxicity
Long-term - systemic effects, inhalation	22 mg/m³ Repeated dose toxicity

Superphosphates, concd (65996-95-4)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	17,4 mg/kg bodyweight/day Single superphosphates, superphosphates, concd
Long-term - systemic effects, inhalation	3,1 mg/m³ Single superphosphates, superphosphates, concd
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	2,1 mg/kg bodyweight/day Single superphosphates, superphosphates, concd
Long-term - systemic effects, inhalation	0,9 mg/m³ Single superphosphates, superphosphates, concd

Superphosphates, concd (65996-95-4)	
Long-term - systemic effects, dermal	10,4 mg/kg bodyweight/day Single superphosphates, superphosphates, concd
PNEC (Water)	
PNEC aqua (freshwater)	1,7 mg/l Single superphosphates, superphosphates, concd
PNEC aqua (marine water)	0,17 mg/l Single superphosphates, superphosphates, concd
PNEC aqua (intermittent, marine water)	17 mg/l Single superphosphates, superphosphates, concd
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l Single superphosphates, superphosphates, concd

Data sources : Safety Data Sheet Supplier

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.

Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves	Nitrile rubber (NBR), Butyl rubber, Polyvinylchloride (PVC)	6 (> 480 minutes)			EN 374

Eye protection:

Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. EN 166

Type	Use	Characteristics	Standard
Safety glasses	Dust	With side shields	EN 166

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided

Respiratory protection:

Where excessive dust may result, wear approved mask

Device	Filter type	Condition	Standard
Disposable half mask, Reusable half mask, Dust mask	Type P2	Dust protection	EN 136, EN 140



Environmental exposure controls:

Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

Other information:

See Heading 7 : 7.1. Precautions for safe handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : No data available
Odour : Odourless.
Odour threshold : Not applicable
pH : No data available
pH solution : 4 - 8 - pH value in distilled water

Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	> 133 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1200 - 1400 kg/m³
Solubility	:	Water: Soluble
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	In case of excessive dust production : Dust may form flammable and explosive mixture with air.
Oxidising properties	:	Non oxidizing material according to EC criteria.
Explosive limits	:	Not determined

9.2. Other information

No additional information available

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

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures. Water, humidity.

10.5. Incompatible materials

Alkalis. Strong acids.

10.6. Hazardous decomposition products

In case of fire: See Heading 5.

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
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Single superphopsphate complex	
LD50 oral rat	> 2000 mg/kg (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	>= 5 mg/l/4h (OECD Guideline 403 with diammonium hydrogenorthophosphate; EPA with calcium bis(dihydrogenorthophosphate))

Superphosphates, concd (65996-95-4)	
LD50 dermal rat	≥ 5000 mg/kg (OECD Guideline 402 with diammonium hydrogenorthophosphate; EPA with calcium bis(dihydrogenorthophosphate))
LD50 dermal rabbit	≥ 2000 mg/kg (OECD Guideline 425 with diammonium hydrogenorthophosphate; EPA with calcium bis(dihydrogenorthophosphate))
LC50 inhalation rat (mg/l)	≥ 5 mg/l/4h (OECD Guideline 403 with diammonium hydrogenorthophosphate; EPA with calcium bis(dihydrogenorthophosphate))

Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Serious eye damage/irritation	:	Causes serious eye damage.
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Respiratory or skin sensitisation	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
STOT-single exposure	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
STOT-repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Single superphopsphate complex	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight/day

Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.
Ecology - water	:	Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.
Acute aquatic toxicity	:	Not classified
Chronic aquatic toxicity	:	Not classified

Single superphopsphate complex	
LC50 fish 1	116 mg/l DIN EN ISO 7346-1 (Brachydanio rerio (zebra-fish))
EC50 Daphnia 1	10,1 g/l NF EN ISO 6341 (daphnia, 48 Hours)
ErC50 (algae)	> 105000 mg/l Pseudokirchneriella subcapitata (NF EN ISO 8692)
NOEC (acute)	3,6 mg/l NF EN ISO 6341 (daphnia, 48 Hours)
NOEC chronic algae	10 g/l Pseudokirchneriella subcapitata, 72 Hours (NF EN ISO 8692)
Data sources	Chemical safety report

Superphosphates, concd (65996-95-4)	
LC50 fish 1	85,9 mg/l
LC50 other aquatic organisms 1	87,6 mg/l
EC50 other aquatic organisms 2	1790 mg/l
Data sources	Chemical safety report

12.2. Persistence and degradability

Single superphopsphate complex	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

P Fertilizer including single superphosphates and Single superphopsphate complex	
Bioaccumulative potential	Not established.

Single superphopsphate complex	
Bioaccumulative potential	Low bioaccumulation potential. Data sources : Safety Data Sheet Supplier.

12.4. Mobility in soil

P Fertilizer including single superphosphates and Single superphopsphate complex	
Ecology - soil	The main components of the mixture are completely soluble in water. No additional information available.

12.5. Results of PBT and vPvB assessment

P Fertilizer including single superphosphates and Single superphopsphate complex
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

Component	
Single superphopsphate complex ()	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.

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden.

Additional information : Do not re-use empty containers.

European List of Waste (LoW) code : 02 01 08* - agrochemical waste containing dangerous substances

HP Code : HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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

Contains no REACH Annex XIV substances

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

For the following substances of this mixture a chemical safety assessment has been carried out
Single superphopsphate complex Superphosphates, concd

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
2.2	Precautionary statements (CLP)	Modified	
4.2	Symptoms/effects after eye contact	Added	
5.2	Fire hazard	Modified	
6.1	Protective equipment	Added	
7.2	Storage area	Added	
7.2	Prohibitions on mixed storage	Added	
7.2	Heat and ignition sources	Added	
7.2	Storage conditions	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
9.1	Solubility in water	Added	
9.1	Oxidising properties	Modified	
9.1	Explosive properties	Modified	
9.1	Odour	Modified	
9.1	Colour	Removed	
10.4	Conditions to avoid	Modified	
13.1	Waste disposal recommendations	Added	
13.1	HP Code	Added	
13.1	European List of Waste (LoW) code	Added	
13.1	Additional information	Modified	
13.1	Waste treatment methods	Modified	
13.1	Regional legislation (waste)	Modified	
16	Abbreviations and acronyms	Added	

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Section 1.2, 8.1, 11 & 12 are based on components' Chemical Safety Report and/or datas from components' supplier.

Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H318	Causes serious eye damage.
ERC8b	Wide dispersive indoor use of reactive substances in open systems
ERC8e	Wide dispersive outdoor use of reactive substances in open systems
PC12	Fertilizers
PROC19	Hand-mixing with intimate contact and only PPE available
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
SU1	Agriculture, forestry, fishery
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product