



SAFETY DATA SHEET

MultiPhos 0-22-0

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

1.1 Product identifier

Product name : MultiPhos 0-22-0

EC number : 232-379-5

REACH Registration number

Registration number	Substance Identification
01-2119488967-11-XXXX	Single superphosphate

Product code : 5336-30798

Product description : EC FERTILISER Single superphosphate 0-22-0

Product type : Solid.

Other means of identification : Not available.

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

Identified uses	
Uses by workers in industrial settings: 1: Sampling, loading, filling, transfer, dumping, and bagging of substance at dedicated / non-dedicated facilities. 2: Storage 3: Transfer of substance into small containers (dedicated filling line, including weighing). Uses by professional workers: 4: Professional use – solid fertiliser for fields 5: Professional use – outdoor mixing of fertiliser formulations 6: Professional use – indoor mixing of fertiliser formulations	
Uses advised against	Reason
Consumer use	Risk cannot be ruled out.

1.3 Details of the supplier of the safety data sheet

Agrium Europe SA
Avenue Louise 326/36
1050 Bruxelles
Belgium
Tel : +32 (0)2 646 70 00
Fax : +32 (0)2 646 68 60
agrium@agrium.eu

e-mail address of person responsible for this SDS : productsafety@agrium.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Agrium Safety Data Sheets are available in many languages at <http://www.agrium.com/products/ae>
Physicians, Poison Centres, or the Public may contact Agrium's Global Emergency Response Number 24/7/365 for service in many languages at +1 303 389 1654

AUSTRIA +43 1 406 43 43
AZERBAIJAN +994 125 979 924
BELARUS +375 17 287 00 92
BELGIUM +32 70 245 245
BULGARIA +359 2 9154 378; +359 887 435 325

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

CROATIA +358 1 2348 342
 CZECH REPUBLIC +420 22 49 195 93
 DENMARK +45 82 12 12 12
 ESTONIA 16662; +372 62 69 379
 FINLAND +358 9 471977
 FRANCE
 Angers +33 (0)2 41 48 21 21
 Bordeaux +33 (0)5 56 96 40 80
 Lille 0800 59 59 59 (national callers)
 Lyon +33 (0)4 72 11 69 11
 Marseille +33 (0)4 91 75 25 25
 Nancy +33 (0)3 83 22 50 50
 Paris +33 (0)1 40 05 48 48
 Rennes +33 (0)2 99 59 22 22
 Strasbourg +33 (0)3 88 37 37 37
 Toulouse +33 (0)5 61 77 74 47
 GEORGIA +995 99 53 33 20
 GERMANY
 Berlin +49 30 192 40
 Bonn +49 228 192 40
 Erfurt +49 361 730 730
 Freiburg +49 761 192 40
 Goettingen +49 551 192 40
 Homburg (Saar) +49 6841 192 40
 Mainz +49 6131 192 40
 Munich +49 89 192 40
 GREECE +30 21 07 79 37 77
 HUNGARY +36 80 20 11 99
 ICELAND +354 543 22 22
 IRELAND +353 1 837 9964 (medical professionals) +353 1 809 2166 (public)
 ISRAEL +972 4 854 19 00
 ITALY
 Bergamo +39 800 883 300
 Firenze +39 55 794 7819
 Foggia +39 881 732 326
 Genoa +39 10 563 62 45
 Milan +39 02 6610 1029
 Padova +39 49 827 50 78
 Pavia +39 38 224 444
 Rome +39 06 305 43 43
 Turin +39 011 663 7637
 KAZAKHSTAN +7 3272 925 868
 LITHUANIA +370 5 236 20 52; +370 687 533 78
 NETHERLANDS +31 30 274 88 88
 NORWAY +47 22 59 13 00
 POLAND
 Gdansk +48 58 682 04 04
 Krakow +48 12 411 99 99
 Łódź +48 42 63 14 724
 Sosnowiec +48 32 266 11 45
 Warszawa +48 22 619 66 54
 Wrocław +48 71 343 30 08
 PORTUGAL 808 250 143 (national callers)
 ROMANIA +402 212 106 282
 RUSSIAN FEDERATION
 Ekaterinburg +7 343 229 98 57
 Moscow +7 495 628 1687
 Saint-Petersburg +7 921 757 3228
 SERBIA +381 11 3608 440
 SLOVAKIA +421 2 5477 4166
 SLOVENIA +386 41 635 500
 SPAIN +34 91 562 0420
 SWEDEN 112 (national callers); +46 (0)10 456 6700
 SWITZERLAND +41 44 251 51 51 (in Switzerland dial 145)

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

THE FORMER YUGOSLAVIA +38 923 147 635
TURKEY +90 0312 433 70 01 or 0 800 314 7900
UNITED KINGDOM
Belfast 844 892 0111
Birmingham 844 892 0111
Edinburgh 844 892 0111
Newcastle Upon Tyne +44 191 2606182; +44 191 2606180
Penarth 844 892 0111

Supplier

Telephone number : Agrium Europe SA
EMERGENCY TELEPHONE NUMBERS:
Transportation: 00-1-303-389-1654
Medical: 00-1-303-389-1654

Hours of operation : 24/7/365

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Multi-constituent substance

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

Not classified.

The product is NOT classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable. Inorganic salt.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable. Inorganic salt.

SECTION 2: Hazards identification

Other hazards which do not result in classification : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION 3: Composition/information on ingredients

3.1 Substances : Multi-constituent substance

Product/ingredient name	Identifiers	%	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Type
Europe Single superphosphate	EC: 232-379-5 CAS: 8011-76-5 REACH Reg.#: 01-2119488967-11-XXXX	100	Not classified.	[*]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[*] Substance

[A] Constituent

[B] Impurity

[C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove person to fresh air. No known significant effects. Seek medical attention for any signs of wheezing and/or breathing difficulties. For additional advice call the medical emergency number on this SDS or your poison center or medical provider.
- Skin contact** : No known significant effects. Rinse the affected areas with water. Remove contaminated clothing, jewelry, and shoes. Wash/clean items before reuse. Seek medical attention for persistent skin pain or irritation. For additional advice call the medical emergency number on this SDS or your poison center or physician.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. Depending on the situation, the rescuer should wear an appropriate mask, gloves, protective clothing and a respirator or self-contained breathing apparatus. Mouth-to-mouth resuscitation of oral exposure patients is not recommended. First-aiders with contaminated clothing should be properly decontaminated.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : May cause irritation due to mechanical action. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Inhalation** : May cause irritation due to mechanical action.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

SECTION 4: First aid measures

- Eye contact** : Adverse symptoms may include the following:
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : No known effect after skin contact. Rinse with water for a few minutes.
- Ingestion** : No known significant effects or critical hazards.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. For professional, multilingual, medical support, in case of medical emergencies involving Agrium products, telephone the Agrium global 24 hour Emergency Number: 00-1-303-389-1654.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : The substance will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases. Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
sulfur oxides
phosphorus oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Additional information** : Contain and collect the water used to fight the fire for later treatment and disposal.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid creating dusty conditions and prevent wind dispersal. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle to process, if possible.
or
Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

If applicable: The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. May form steep piles that can collapse without warning when stored in bulk. Avoid forming steep slopes when removing product.

7.3 Specific end use(s)

Recommendations : Not applicable. Non-hazardous substance.

Industrial sector specific solutions : Not applicable. Non-hazardous substance.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
Europe No exposure limit value known.	
Austria Calcium sulfate	GKV_MAK (Austria, 12/2011). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction PEAK: 10 mg/m ³ , 2 times per shift, 60 minutes. Form: Respirable fraction
Belgium Calcium sulfate	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). TWA: 10 mg/m ³ 8 hours.
Bulgaria Single superphosphate	България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012). Limit value 8 hours: 5 mg/m ³ 8 hours.
Calcium sulfate	България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012). Limit value 8 hours: 10 mg/m ³ 8 hours.
Czech Republic Calcium sulfate	MZCR PEL/NPK-P (Czech Republic, 1/2013). TWA: 10 mg/m ³ 8 hours. Form: Respirable dust
France Calcium sulfate	Ministère du travail (France, 7/2012). Notes: List of indicative occupational exposure limit values TWA: 10 mg/m ³ 8 hours.
Germany Calcium sulfate	TRGS900 AGW (Germany, 4/2014). TWA: 6 mg/m ³ 8 hours. Form: alveolar fraction
Greece Calcium sulfate	PD 90/1999 (Greece, 8/2007). TWA: 10 mg/m ³ 8 hour(s). Form: Inhalable fraction TWA: 5 mg/m ³ 8 hour(s). Form: Respirable fraction
Hungary Calcium sulfate	EüM-SzCsM (Hungary, 12/2007). TWA: 6 mg/m ³ 8 hour(s). Form: Respirable dust
Ireland Calcium sulfate	NAOSH (Ireland, 5/2010). OELV-8hr: 10 mg/m ³ 8 hour(s).
Italy Calcium sulfate	ACGIH TLV (United States, 2/2010). TWA: 10 mg/m ³ 8 hour(s). Form: Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract.
Latvia Calcium bis(dihydrogenorthophosphate)	LV Nat. Standardisation and Meteorological Centre (Latvia, 5/2007). TWA: 10 mg/m ³ 8 hour(s).
Calcium hydrogenorthophosphate	LV Nat. Standardisation and Meteorological Centre (Latvia, 5/2007). TWA: 10 mg/m ³ 8 hour(s).
Poland Calcium sulfate	Rozporządzenie Ministra Pracy i Polityki Społecznej (Poland, 7/2009). TWA: 10 mg/m ³ 8 hour(s). Form: total dust
Portugal	

SECTION 8: Exposure controls/personal protection

Calcium sulfate	Instituto Português da Qualidade (Portugal, 3/2007). TWA: 10 mg/m ³ 8 hour(s). Form: inhalable fraction
Romania Calcium sulfate	Ministerul Muncii, Solidarității Sociale și Familiei, și Ministerul Sănătății Publice (Romania, 1/2008). VLA: 10 mg/m ³ 8 hour(s). Form: dust, inhalable fraction
Slovakia Calcium sulfate	Nariadenie vlády Slovenskej republiky (Slovakia, 6/2007). TWA: 4 mg/m ³ 8 hour(s). Form: inhalable aerosol TWA: 1.5 mg/m ³ 8 hour(s). Form: respirable aerosols
Slovenia Calcium sulfate	Uradni list Republike Slovenije (Slovenia, 6/2007). TWA: 6 mg/m ³ 8 hour(s). Form: respirable fraction KTV: 6 mg/m ³ , 4 times per shift, 15 minute(s). Form: respirable fraction
Spain Calcium sulfate	INSHT (Spain, 5/2010). TWA: 10 mg/m ³ 8 hour(s).
Switzerland Orthophosphoric acid	SUVA (Switzerland, 1/2009). TWA: 1 mg/m ³ 8 hour(s). STEL: 2 mg/m ³ 15 minute(s).
Turkey Calcium sulfate	NIOSH REL (United States, 6/2009). TWA: 5 mg/m ³ 10 hour(s). Form: Respirable fraction TWA: 10 mg/m ³ 10 hour(s). Form: Total

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Single superphosphate	DNEL	Long term Dermal	17.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	10.4 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	0.9 mg/m ³	Consumers	Systemic
	DNEL	Long term Oral	2.1 mg/kg bw/day	Consumers	Systemic

DNEL/DMEL Summary : Very low toxicity to humans or animals.

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Single superphosphate	Fresh water	1.7 mg/l	Assessment Factors
	Marine	0.17 mg/l	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

SECTION 8: Exposure controls/personal protection

- | | |
|--|---|
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles. |
| <u>Skin protection</u> | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- | | |
|---|---|
| Physical state | : Solid. [Amorphous solid powder or lumps.] |
| Colour | : Grey. |
| Odour | : Odourless. |
| Odour threshold | : Not available. |
| pH | : Not available. |
| Melting point/freezing point | : Not available. |
| Initial boiling point and boiling range | : Not available. |
| Flash point | : [Product does not sustain combustion.] |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Non-combustible. |
| Upper/lower flammability or explosive limits | : Not available. |
| Vapour pressure | : Not available. |
| Vapour density | : Not available. |
| Relative density | : 2.41 |
| Solubility(ies) | : Very slightly soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/ water | : Not available. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : 100°C |
| Viscosity | : Not available. |
| Explosive properties | : No specific fire or explosion hazard. |
| Oxidising properties | : None. |

SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Single superphosphate	LC50 Inhalation Vapour	Rat - Male, Female	>5 mg/l	4 hours
	LD50 Dermal	Rat - Male, Female	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-
Calcium bis (dihydrogenorthophosphate)	LD50 Oral	Rat - Female	3986 mg/kg	-
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	3986 mg/kg	-

Conclusion/Summary : Not considered to be toxic to humans.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Single superphosphate	Skin	Rabbit	-	-	-
	Eyes	Rabbit	0	-	72 hours

Conclusion/Summary

Skin : Non-irritating to the skin.

Eyes : No known significant effects or critical hazards.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Single superphosphate	Skin	Mouse	Not sensitizing

Conclusion/Summary

Skin : Non-sensitiser to skin.

Mutagenicity

SECTION 11: Toxicological information

Product/ingredient name	Test	Experiment	Result
Single superphosphate	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Human Cell: Somatic	Negative
	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vivo Subject: Bacteria	Negative

Conclusion/Summary : No mutagenic effect.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Single superphosphate	Negative	Negative	Negative	Rat - Male, Female	Oral: 750 mg/kg	7 days per week

Conclusion/Summary : Not considered to be toxic to the reproductive system.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : May cause irritation due to mechanical action. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Inhalation** : May cause irritation due to mechanical action.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : No known effect after skin contact. Rinse with water for a few minutes.
- Ingestion** : No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

SECTION 11: Toxicological information

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Single superphosphate	Sub-chronic NOAEL Oral	Rat - Male, Female	250 mg/kg	-

Conclusion/Summary : Not available.

General : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Single superphosphate	Acute EC50 >87.6 mg/l Fresh water Acute LC50 1790 mg/l Fresh water Acute LC50 >85.9 mg/l Fresh water Acute LC50 650 ug/L Fresh water	Algae Daphnia Fish Fish - Barbus stigma - 10 to 13 cm - 20 to 35 g	72 hours 72 hours 96 hours 96 hours
Calcium sulfate	Acute LC50 >1910000 ug/L Fresh water Acute LC50 >1970000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia - <24 hours Fish - Pimephales promelas - 1 to 7 days	48 hours 96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable. Inorganic salt.

vPvB : Not applicable. Inorganic salt.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

If applicable: The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

Waste code	Waste designation
06 09 00	wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user : Not available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.
on the manufacture,
placing on the market and
use of certain dangerous
substances, mixtures and
articles

Other EU regulations

Europe inventory : All components are listed or exempted.

National regulations

**Limitation of the use of
organic solvents** : Permitted.

Denmark

MAL-code : 00-1

France

**Reinforced medical
surveillance** : Act of July 11, 1977 determining the list of activities which require reinforced medical
surveillance: not applicable

Germany

Storage class (TRGS 510) : 13

Hazard class for water : 3 Appendix No. 3

**Technical instruction on
air quality control** : TA-Luft Number 5.2.1: 54.3-100%

AOX : The product does not contain organically bound halogens which could lead to an AOX
value in waste water.

Italy

D.Lgs. 152/06 : Not classified.

Netherlands

**Water Discharge Policy
(ABM)** : {5} Very toxic to aquatic organisms. Abatement effort: B

**Biocidal products
regulation** : Not applicable.

**Ordinance on Thermoset
Plastics** : Not applicable.

Thermoset plastic waste : Not available.

Waste group : Not available.

Switzerland

VOC content : Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Revision comments : Sections revised:
Section 2. Hazards identification
Section 3. Composition/information on ingredients
Section 4. First aid measures
Section 7. Handling and storage
Section 8. Exposure controls/personal protection
Section 11. Toxicological information
Section 12. Ecological information
Section 15. Other Regulatory Information and Pictograms

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	Supplier's information

Europe

Full text of abbreviated H statements : Not applicable.

Full text of classifications [CLP/GHS] : Not applicable.

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Date of previous issue : 5/16/2016

Version : 2.1

Notice to reader

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FURTHERMORE, THE RECIPIENT ASSUMES ALL RISK IN CONNECTION WITH THE USE OF THE MATERIAL. THE RECIPIENT ASSUMES ALL RESPONSIBILITY FOR ENSURING THE MATERIAL IS USED IN A SAFE MANNER IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL, HEALTH, SAFETY AND SECURITY LAWS, POLICIES AND

MultiPhos 0-22-0

SECTION 16: Other information

GUIDELINES. THE SUPPLIER DOES NOT WARRANT THE MERCHANTABILITY OF THE MATERIAL OR THE FITNESS OF THE MATERIAL FOR ANY PARTICULAR USE AND ASSUMES NO RESPONSIBILITY FOR INJURY OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY OR RELATED TO THE USE OF THE MATERIAL.

Product definition : Multi-constituent substance

Identification of the substance or mixture

Code : 5336-30798

Product name : Single superphosphate 0-22-0

Section 1 - Title

Short title of the exposure scenario : Agrium SSP ES for Workers

List of use descriptors : **Identified use name:** Industrial use for the formulation of preparations, intermediate use, and end use in industrial settings.
Process Category: PROC03, PROC05, PROC08a, PROC08b, PROC09, PROC26
Substance supplied to that use in form of: As such
Sector of end use: SU01, SU03, SU10
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02, ERC10b
Market sector by type of chemical product: PC12
Article category related to subsequent service life: Not applicable.

Environmental contributing scenarios : **Not applicable.**

Health Contributing scenarios : **Bulk transfers** - PROC03, PROC05, PROC08a, PROC08b, PROC09, PROC26
Clean-down and maintenance of equipment - PROC03, PROC05, PROC08a, PROC08b, PROC09, PROC26
Mixing operations (open systems) - PROC05, PROC08b
Product packaging - PROC09
Storage - PROC26

Number of the ES : 1

Processes and activities covered by the exposure scenario : Applicable to all identified Process Categories.
 An environmental assessment has not been done as the substance does not meet the criteria for being classified as dangerous for the environment.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: Not applicable.

Not applicable. Not classified as dangerous to the environment.

Contributing scenario controlling worker exposure for 1: Bulk transfers

Product characteristics : Solid, low dustiness.

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100%

Physical state : Solid beads.

Dust : Solid, low dustiness.

Amounts used : Variable, from day to day.

Frequency and duration of use : Use duration (h/d): >4

Human factors not influenced by risk management : Not applicable.

Other given operational conditions affecting workers exposure : Indoor or outdoor use Amounts used

Area of use: : Indoor and outdoor use.

Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Process control/change measures	: Not applicable.
Technical conditions and measures to control dispersion from source towards the worker	: Use appropriate containment to avoid environmental contamination. Provide enhanced general ventilation by mechanical means.
Engineering controls	: Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.
Ventilation control measures	: Provide adequate ventilation and, if possible, use or install internal exhaust systems.
Organisational measures to prevent/limit releases, dispersion and exposure	: Not applicable.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: A washing facility or water for eye and skin cleaning purposes should be present. Brush off contaminated clothing. Ensure good industrial hygiene. Provide eye shower and mark its location conspicuously.
Personal protection	: If operating conditions cause high dust concentrations to be produced, use dust goggles.
Respiratory protection	: If ventilation is inadequate, use respirator that will protect against dust/mist.

Contributing scenario controlling worker exposure for 2: Clean-down and maintenance of equipment

Product characteristics	: Solid, low dustiness.
Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100%
Physical state	: Solid beads.
Dust	: Solid, low dustiness.
Amounts used	: Not applicable.
Frequency and duration of use	: Use duration (h/d): >4
Human factors not influenced by risk management	: Not applicable.
Other given operational conditions affecting workers exposure	: Indoor or outdoor use
Area of use:	: Indoor and outdoor use.
Technical conditions and measures at process level (source) to prevent release	: Restrict access while emptying or maintaining the unit. Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Since the emptied containers retain product residue, follow product insert warnings even after container is emptied.
Process control/change measures	: These controls may include segregation of areas, access only to authorised persons, permit to work systems, confined space working procedures, and hazard awareness training.
Technical conditions and measures to control dispersion from source towards the worker	: Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.
Engineering controls	: Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.
Ventilation control measures	: Provide adequate ventilation and, if possible, use or install internal exhaust systems.

Organisational measures to prevent/limit releases, dispersion and exposure : Not applicable.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : A washing facility or water for eye and skin cleaning purposes should be present. Brush off contaminated clothing. Pay attention to good general hygiene and housekeeping. Provide eye shower and mark its location conspicuously. When using do not eat or drink.

Personal protection : If operating conditions cause high dust concentrations to be produced, use dust goggles.

Respiratory protection : If ventilation is inadequate, use respirator that will protect against dust/mist.

Contributing scenario controlling worker exposure for 3: Mixing operations (open systems)

Product characteristics : Solid, low dustiness.

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100%

Physical state : Solid beads.

Dust : Solid, low dustiness.

Amounts used : Not applicable.

Frequency and duration of use : Use duration (h/d): >4

Human factors not influenced by risk management : Not applicable.

Other given operational conditions affecting workers exposure : Indoor use

Area of use: : Indoor

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Process control/change measures : Not applicable.

Technical conditions and measures to control dispersion from source towards the worker : Use appropriate containment to avoid environmental contamination. Provide enhanced general ventilation by mechanical means.

Engineering controls : Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Ventilation control measures : Provide adequate ventilation and, if possible, use or install internal exhaust systems.

Organisational measures to prevent/limit releases, dispersion and exposure : Not applicable.

Conditions and measures related to personal protection and hygiene

Personal protection : Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to dust. Wear suitable coveralls to prevent exposure to the skin. Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. Adequate ventilation should be provided if there is risk of aerosol formation. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist. In case of inadequate ventilation wear respiratory protection: Approved/certified respirator with appropriate particulate dust filters.

Respiratory protection : Filtering half-face mask (DIN EN 149)

Contributing scenario controlling worker exposure for 4: Product packaging

Product characteristics	: Solid, low dustiness.
Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100%
Physical state	: Solid beads.
Dust	: Solid, low dustiness.
Amounts used	: Not applicable.
Frequency and duration of use	: Use duration (h/d): >4
Human factors not influenced by risk management	: Not applicable.
Other given operational conditions affecting workers exposure	: Indoor use
Area of use:	: Indoor
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Process control/change measures	: Not applicable.
Technical conditions and measures to control dispersion from source towards the worker	: Ensure the area is organised, well lit and ventilated with enough space to deal with spills easily.
Engineering controls	: Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.
Ventilation control measures	: Ensure sufficient ventilation when re-packing damaged packages. Only use product in a well-ventilated area.
Organisational measures to prevent/limit releases, dispersion and exposure	: Not applicable.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: A washing facility or water for eye and skin cleaning purposes should be present. Brush off contaminated clothing. When using do not eat or drink.
Personal protection	: If operating conditions cause high dust concentrations to be produced, use dust goggles.
Respiratory protection	: Filtering half-face mask (DIN EN 149)

Contributing scenario controlling worker exposure for 5: Storage

Product characteristics	: Solid, low dustiness.
Concentration of substance in mixture or article	: Covers percentage substance in the product up to 100%
Physical state	: Solid beads.
Dust	: Solid, low dustiness.
Amounts used	: Not applicable.
Frequency and duration of use	: Use duration (h/d): >4
Human factors not influenced by risk management	: Not applicable.
Other given operational conditions affecting workers exposure	: Indoor use

Area of use:	: Indoor
Technical conditions and measures at process level (source) to prevent release	: Not applicable.
Process control/change measures	: Not applicable.
Technical conditions and measures to control dispersion from source towards the worker	: Use appropriate containment to avoid environmental contamination. Provide enhanced general ventilation by mechanical means.
Engineering controls	: Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.
Ventilation control measures	: Provide adequate ventilation and, if possible, use or install internal exhaust systems.
Organisational measures to prevent/limit releases, dispersion and exposure	: Not applicable.
Conditions and measures related to personal protection and hygiene	
Personal protection	: If operating conditions cause high dust concentrations to be produced, use dust goggles.
Respiratory protection	: Filtering half-face mask (DIN EN 149)

Section 3 - Exposure estimation and reference to its source

Website:	: Qualitative approach used to conclude safe use.
Exposure estimation and reference to its source - Environment: 6: Not applicable.	
Exposure assessment (environment):	: Qualitative approach used to conclude safe use.
Exposure estimation	: Not available.
Exposure estimation and reference to its source - Workers:1: Bulk transfers	
Exposure assessment (human):	: Qualitative approach used to conclude safe use.
Exposure estimation	: Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.
Exposure estimation and reference to its source - Workers:2: Clean-down and maintenance of equipment	
Exposure assessment (human):	: Qualitative approach used to conclude safe use.
Exposure estimation	: Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.
Exposure estimation and reference to its source - Workers:3: Mixing operations (open systems)	
Exposure assessment (human):	: Qualitative approach used to conclude safe use.
Exposure estimation	: Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.
Exposure estimation and reference to its source - Workers:4: Product packaging	
Exposure assessment (human):	: Qualitative approach used to conclude safe use.
Exposure estimation	: Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.
Exposure estimation and reference to its source - Workers:5: Storage	
Exposure assessment (human):	: Qualitative approach used to conclude safe use.
Exposure estimation	: Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: No additional risk management measures required.
Health	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Additional good practice advice beyond the REACH CSA

Environment	: Use containment as appropriate. Good hygiene practices and housekeeping measures
Health	: Not available.

Product definition : Multi-constituent substance

Identification of the substance or mixture

Code : 5336-30798

Product name : Single superphosphate 0-22-0

Section 1 - Title

Short title of the exposure scenario : Agrium SSP ES for Professionals

List of use descriptors : **Identified use name:** Professional use in formulation of preparations and end-use.
Process Category: PROC03, PROC08a, PROC08b, PROC09, PROC26
Substance supplied to that use in form of: As such
Sector of end use: SU01, SU03, SU10, SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02, ERC08b, ERC08e
Market sector by type of chemical product: PC12

Environmental contributing scenarios : An environmental assessment has not been done as the substance does not meet the criteria for being classified as dangerous for the environment.

Health Contributing scenarios : All process categories are addressed by this contributing scenario as all Operational Conditions and Risk Management Measures are identical.

Number of the ES : 2

Processes and activities covered by the exposure scenario : Applicable to all identified Process Categories.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: An environmental assessment has not been done as the substance does not meet the criteria for being classified as dangerous for the environment.

Not applicable.

Contributing scenario controlling worker exposure for 1: All process categories are addressed by this contributing scenario as all Operational Conditions and Risk Management Measures are identical.

Product characteristics : Solid, low dustiness.

Concentration of substance in mixture or article : Covers percentage substance in the product up to 100%

Physical state : Solid beads.

Dust : Solid, low dustiness.

Amounts used : Variable.

Frequency and duration of use : >4 Hours per shift

Human factors not influenced by risk management : Not applicable.

Other given operational conditions affecting workers exposure : Indoor or outdoor use

Area of use: : Indoor and outdoor use.

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical conditions and measures to control dispersion from source towards the worker : Use containment as appropriate. Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

Engineering controls	: Provide adequate ventilation.
Ventilation control measures	: Provide adequate ventilation and, if possible, use or install internal exhaust systems.
Product substance-related measures	: Avoid contact with eyes, skin and clothing. Ensure the area is organised, well-lit and ventilated, with enough space to deal with spills easily. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.
Organisational measures to prevent/limit releases, dispersion and exposure	: Not applicable.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: Ensure good industrial hygiene. Avoid contact with eyes, skin and clothing. Avoid creating dusty conditions and prevent wind dispersal. Work in well-ventilated zones or use proper respiratory protection.
Personal protection	: Use suitable eye protection. If operating conditions cause high dust concentrations to be produced, use dust goggles. Use appropriate respiratory protection if there is a risk of exceeding any exposure limits. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist. In case of inadequate ventilation wear respiratory protection: Filtering device (DIN EN 147) Wear dust-resistant protective clothing.

Section 3 - Exposure estimation and reference to its source

Website:	: Qualitative approach used to conclude safe use.
Exposure estimation and reference to its source - Environment: 2: An environmental assessment has not been done as the substance does not meet the criteria for being classified as dangerous for the environment.	
Exposure assessment (environment):	: Not applicable.
Exposure estimation	: Not available.
Exposure estimation and reference to its source - Workers:1: All process categories are addressed by this contributing scenario as all Operational Conditions and Risk Management Measures are identical.	
Exposure assessment (human):	: Qualitative approach used to conclude safe use.
Exposure estimation	: Not available.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Not applicable.
Health	: No additional risk management measures required.

Additional good practice advice beyond the REACH CSA

Environment	: Not available.
Health	: Use containment as appropriate. Ensure control measures are regularly inspected and maintained. Pay attention to good general hygiene and housekeeping.