

Safety Data Sheet

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

Date of issue: 01/03/2011 Revision date: 24/05/2016 Supersedes: 03/02/2015

Version: 8.0

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

Product identifier

Product form : Substance

POTASSIUM NITRATE Trade name : Potassium nitrate Chemical name : 231-818-8 EC no CAS No : 7757-79-1

REACH registration No : 01-2119488224-35-0029

: PREX-002 Product code Formula : KNO3

Synonyms : Saltpeter; Acidic Potassium Nitrate

Product group : Inorganic salt.

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

Relevant identified uses 1.2.1.

Title	Use descriptors
Professional use: Formulation of preparations, Specific end uses (ES Ref.: ES2)	SU22, PC4, PC12, PC16, PC17, PC37, PROC2, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC16, PROC19, PROC26, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b
Consumer use: Fertilizer & Other Products (ES Ref.: ES3)	SU21, PC4, PC12, PC35, PC39, ERC8a, ERC8b, ERC8d, ERC8e, ERC9a, ERC9b

Full text of use descriptors: see section 16

1.2.2. Uses advised against

Title	Use descriptors	Reason
Consumer use	SU21, PC0, PC11	

Full text of use descriptors: see section 16

Details of the supplier of the safety data sheet

PRAYON (O.R.2.) KEMAPCO Rue Joseph Wauters, 144 B-4480 Engis - Belgique-Belgium T +32 (0)4 273 92 11 - F +32 (0)4 273 96 35 Reachcustomer@prayon.be - www.prayon.be

1.4. **Emergency telephone number**

Country	Organisation/Company	Address	Emergency number
	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0870 600 6266 (UK only),
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Wolfson Unit	Penarth CF64 2XX Cardiff	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
United Kingdom	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh, Centre Hospitalier Universitaire Bab el Oued	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

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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

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

2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP) : Warning

Hazard statements (CLP) : H272 - May intensify fire; oxidiser

Precautionary statements (CLP) : P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking

P221 - Take any precaution to avoid mixing with Other chemicals, combustible materials

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. Substance

Name : POTASSIUM NITRATE

CAS No : 7757-79-1 EC no : 231-818-8

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium nitrate	(CAS No) 7757-79-1 (EC no) 231-818-8 (REACH-no) 012119488224-35-0028	> 97,5	Ox. Sol. 3, H272

Full text of H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air. Assure fresh air breathing. If breathing is difficult, give oxygen. Call

a physician immediately.

First-aid measures after skin contact : Wash immediately with plenty of soap and water. Remove contaminated clothing and shoes.

Take off contaminated clothing and wash before reuse. Obtain medical attention if irritation

persists.

First-aid measures after eye contact : In case of eye contact, remove contact lenses and immediately rinse with clean water for 20-30

minutes. Call a doctor.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting.

Call a doctor.

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

Symptoms/injuries : Respiratory tract irritation. Eye irritation. Skin irritation. Can occur: gastrointestinal disturbance.

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

See Heading 4.1.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media can be used.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: On exposure to high temperature, may decompose, releasing toxic gases. Oxidising. Reacts with combustible materials and increases combustion even in the absence of air. Poisonous nitrous gasses may form in case of fire.

5.3. Advice for firefighters

Precautionary measures fire

: Do not enter fire area without proper protective equipment, including respiratory protection.

Other information

Exercise caution when fighting any chemical fire. Avoid mechanical shock. Avoid high

temperatures.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Provide adequate ventilation to minimize dust and/or vapour concentrations. Equip cleanup crew with proper protection. Personal protective equipment (see section (s):8.2).

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Collect spill when it is dry. Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

See section 8 and 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Avoid dust production. Avoid any direct contact with the product. Packagings, even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packagings as if they were full. Keep away from sources of ignition. Both local exhaust and general room ventilation are usually required. Keep away from heat and direct sunlight.

Hygiene measures

When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in dry, cool, well-ventilated area. Keep packaging closed when not in use. Keep away from combustible material. Keep away from naked flames/heat. Keep away from sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

POTASSIUM NITRATE (7757-79-1)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	20,8 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	36,7 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	12,5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	10,9 mg/m³	
Long-term - systemic effects, dermal	ong-term - systemic effects, dermal 12,5 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0,45 mg/l	
PNEC aqua (marine water)	0,045 mg/l	
PNEC aqua (intermittent, freshwater)	4,5 mg/l	
PNEC (STP)		
PNEC sewage treatment plant	18 mg/l	

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8.2. Exposure controls

Appropriate engineering controls : Good ventilation of the workplace required. Please refer to the annex (exposure scenarios).

Hand protection : Use gloves resistant to chemical products corresponding to EN 374:3". Take advice to gloves'

manufacturer .'

Skin and body protection : Protective clothing (with elasticated cuffs and closed neck)

Respiratory protection : Appropriate dust or mist respirator should be used if airborne particles are generated when

handling this material (Type FFP2 in accordance with EN 140 or 149)

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

 Physical state
 : Crystalline powder

 Molecular mass
 : 101 g/mol

 Colour
 : white.

 Odour
 : odourless.

 Odour threshold
 : Not applicable

pH : 5-8

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 335 °C

Freezing point : No data available

Boiling point : > 300 °C

Flash point : No data available
Auto-ignition temperature : Not flammable
Decomposition temperature : > 600 °C
Flammability (solid, gas) : Not flammable
Vapour pressure : Not applicable
Relative vapour density at 20 °C : Not applicable
Relative density : No data available

Density : 2,1 g/cm³

Solubility : Water: > 300 g/l Material highly soluble in water

Log Pow : Not applicable
Log Kow : Not applicable
Viscosity, kinematic : Not applicable
Viscosity, dynamic : Not applicable

Explosive properties : Product is not explosive.

Oxidising properties : Non oxidizing material according to EC criteria.

Explosive limits : Not explosive

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Under normal circumstances (temperature and pression) the product is stable.

10.2. Chemical stability

Stable under normal conditions (Handling and storage).

10.3. Possibility of hazardous reactions

Reacts violently with: Acids. Combustibles. Metal powder. Reducing agents.

10.4. Conditions to avoid

Contact with combustible material may cause fire.

10.5. Incompatible materials

Flammable materials. combustibles. Reducing agent.

10.6. Hazardous decomposition products

On exposure to high temperature, may decompose, releasing toxic gases. (+/- 400 °C).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

POTASSIUM NITRATE (7757-79-1)	
LD50 oral rat	> 2000 mg/kg (OECD 425)
LD50 dermal rat	> 5000 mg/kg (OECD 402)
LC50 inhalation rat (mg/l)	> 527 mg/m³ (OECD 403)

Skin corrosion/irritation : Not irritating. rabbit. OECD 404

pH: 5 - 8

Serious eye damage/irritation : Not irritating. rabbit. OECD 405

pH: 5 - 8

: Did not cause sensitisation. mouse, OECD 429 Respiratory or skin sensitisation : Negative /OECD 471. Negative/OECD 476 Germ cell mutagenicity

Carcinogenicity : No carcinogenic effect

Reproductive toxicity : NOAEL: > = 1500 mg/kg bw/day(rat, oral, 28 days, OECD 422)

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: NOAEL: > = 1500 mg/kg bw/day(rat, OECD 422)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. **Toxicity**

POTASSIUM NITRATE (7757-79-1)		
LC50 fish 1	1378 mg/l (96h - Poecilia reticulata, OECD 203)	
EC50 Daphnia 1	490 mg/l (48h - Daphnia)	
EC50 other aquatic organisms 1	> 1000 mg/l (3h - ACTIVATED SLUDGE,OECD 209)	
ErC50 (algae)	> 1700 mg/l (10 d - Benthic diatoms)	
NOEC (additional information)	ACTIVATED SLUDGE 180 mg/l OECD 209	

12.2. Persistence and degradability

No additional information available

Bioaccumulative potential 12.3.

POTASSIUM NITRATE (7757-79-1)	
Log Pow	Not applicable
Log Kow	Not applicable
Bioaccumulative potential	small.

12.4. Mobility in soil

No additional information available

Results of PBT and vPvB assessment 12.5.

POTASSIUM NITRATE (7757-79-1)

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 : Nitrate may cause an eutrophication of natural water.

SECTION 13: Disposal considerations

Waste treatment methods 13.1.

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material

and its container at hazardous or special waste collection point.

Ecology - waste materials : See the european waste catalogue.

SECTION 14: Transport information

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

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14.1.	UN	num	bei

UN-No. (ADR) : 1486 UN-No. (IMDG) : 1486 UN-No. (IATA) : 1486 UN-No. (ADN) : 1486 UN-No. (RID) : 1486

14.2. UN proper shipping name

Proper Shipping Name (ADR) : POTASSIUM NITRATE
Proper Shipping Name (IMDG) : POTASSIUM NITRATE
Proper Shipping Name (IATA) : POTASSIUM NITRATE
Proper Shipping Name (ADN) : POTASSIUM NITRATE
Proper Shipping Name (RID) : POTASSIUM NITRATE

Transport document description (ADR) : UN 1486 POTASSIUM NITRATE, 5.1, III, (E)
Transport document description (IMDG) : UN 1486 POTASSIUM NITRATE, 5.1, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 5.1
Danger labels (ADR) : 5.1



IMDG

Transport hazard class(es) (IMDG) : 5.1
Danger labels (IMDG) : 5.1



IATA

Transport hazard class(es) (IATA) : 5.1 Hazard labels (IATA) : 5.1



ADN

Transport hazard class(es) (ADN) : 5.1
Danger labels (ADN) : 5.1



RID

Transport hazard class(es) (RID) : 5.1
Danger labels (RID) : 5.1

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14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : O2
Excepted quantities (ADR) : E1
Hazard identification number (Kemler No.) : 50

Orange plates

50 1486

Tunnel restriction code (ADR) : E

- Transport by sea

MFAG-No : 140

- Air transport

No data available

- Inland waterway transport

Carriage prohibited (ADN) : No Not subject to ADN : No

- Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH Annex XVII restrictions

POTASSIUM NITRATE is not on the REACH Candidate List POTASSIUM NITRATE is not on the REACH Annex XIV List

Other information, restriction and prohibition

regulations

: REGULATION (EU) No 98/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 January 2013 on the marketing and use of explosives precursors - The substance is listed.

15.1.2. National regulations

SUBSTANCE LISTED IN THE ANNEX I OF DIRECTIVE 2003/105/CE AMENDING DIRECTIVE 96/82/CE (CONTROL OF MAJOR - ACCIDENT HAZARDS INVOLVING DANGEROUS SUBSTANCES)

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

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SECTION 16: Other information

Abbreviations and acronyms:

ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways

ADR: European Agreement concerning international carriage of Dangerous goods by Road

AF : Assessment factor BCF : Bioconcentration factor

Bw: Body weight

CAS: Chemical Abstracts Service CLP: Classification, labelling, packaging CSR: Chemical Safety Report DMEL: Derived maximum effect level DNEL: Derivative No effect Level

EC: European Community ELV: Emission limit values

EN: European Norm

EUH: European Hazard Statement EWC: European Waste catalogue

IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration LD50: Median lethal dose

NOAEL : No-observed-adverse-effect-level NOEC : No observed effect concentration

NOEL: No observed effect level OEL: Operator exposure level PBT: Persistent, bioaccumulative, Toxic

PBT: Persistent, bioaccumulative, Toxic PEC: Predicted effect level

PNEC: Predicted No effect Concentration

REACH: Registration, evaluation and autorisation of chemicals

RID: Regulations concerning the international carriage of dangerous goods by rail

STEL: Short Term Exposure Limit TWA: Time weighted average

vPvB: Very persistent, very bioaccumulative

Data sources : Reach dossier.

Training advice : None.

Full text of H- and EUH-statements:

Ox. Sol. 3	Oxidising Solids, Category 3
H272	May intensify fire; oxidiser
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8b	Wide dispersive indoor use of reactive substances in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
ERC8d	Wide dispersive outdoor use of processing aids in open systems
ERC8e	Wide dispersive outdoor use of reactive substances in open systems
ERC8f	Wide dispersive outdoor use resulting in inclusion into or onto a matrix
ERC9a	Wide dispersive indoor use of substances in closed systems
ERC9b	Wide dispersive outdoor use of substances in closed systems
PC0	ARTICLES, PYROTECHNIC
PC11	Explosives
PC12	Fertilizers
PC16	Heat Transfer Fluids
PC17	Hydraulic Fluids
PC35	Washing and cleaning products (including solvent based products)
PC37	Water treatment chemicals
PC39	Cosmetics, personal care products
PC4	Anti-Freeze and De-icing products
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring
PROC16	Using material as fuel sources, limited exposure to unburned product to be expected
PROC19	Hand-mixing with intimate contact and only PPE available
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC26	Handling of solid inorganic substances at ambient temperature

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PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SDS EU (REACH Annex II) (Prayon)

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.DISCLAIMER OF LIABILITY The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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Annex to the Safety Data Sheet

Product exposure scenario(s)	
ES Type	ES title
Worker Professional use: Formulation of preparations, Specific end uses	
Consumer Use: Fertilizer & Other Products	

1. Exposure scenario ES2

Professional use: Formulation of preparations, Specific end uses

ES Ref.: ES2	Association ref code: ES2
ES Type: Worker	Date of issue: 03/02/2015
Version: 1.0	
Revision date: 24/05/2016	

Use descriptors	SU22	
	PROC2, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC16, PROC19, PROC26	
	PC4, PC12, PC16, PC17, PC37	
	ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b	
Processes, tasks, activities covered	Industrial use	
Assessment method	The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures	
	Oxidising properties) Qualitative approach used to conclude safe use	

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC2, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC16, PROC19, PROC26)

PROC2	Use in closed, continuous	Use in closed, continuous process with occasional controlled exposure		
PROC5	Mixing or blending in batch contact)	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)		
PROC8a	Transfer of substance or p facilities	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities		
PROC8b	Transfer of substance or p	preparation (charging/discharging) from/to vessels/large containers at dedicated facilities		
PROC9	Transfer of substance or p	preparation into small containers (dedicated filling line, including weighing)		
PROC10	Roller application or brush	Roller application or brushing		
PROC11	Non industrial spraying	Non industrial spraying		
PROC13	Treatment of articles by di	Treatment of articles by dipping and pouring		
PROC16	Using material as fuel sou	rces, limited exposure to unburned product to be expected		
PROC19	Hand-mixing with intimate	contact and only PPE available		
PROC26 Handling of solid inorganic		substances at ambient temperature		
Product characteristics				
Physical form of product		Solid, Liquid		
Concentration of substance in product		> 25 %		
Dustiness		Solid, low dustiness		

Operational conditions

Frequency and duration of use		> 4 h/day
Other given operational conditions affecting workers	indoor,outdoor	
exposure		
Risk Management Measures		
Technical conditions and measures to control	Good standard of general ventilation	

dispersion from source towards the worker

Other risk management measures:		
Oxidizer	Handle in accordance with good industrial hygiene	
	and safety practice. Keep away from ignition	
	sources. Do not eat, drink or smoke when using this	
	product. Keep away from combustible material,	

Containment as appropriate

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reducing agents, strong bases			
2.2 Contributing scenario controlling environmental exposure (ERC2, ERC4, ERC6a, ERC7)			
ERC2 Formulation of preparations		eparations	
ERC4	Industrial use of p	Industrial use of processing aids in processes and products, not becoming part of articles	
ERC6a	Industrial use resu	Industrial use resulting in manufacture of another substance (use of intermediates)	
ERC7	Industrial use of s	Industrial use of substances in closed systems	
Product characteristics			
Physical form of product		Liquid, Solid	
Concentration of substance in product		> 25 %	
Dustiness		Solid, low dustiness	
Operational condit	ions		
No additional inform			

No additional information

Risk Management Measures

No additional information

3. Exposure estimation and reference to its source

3.1. Health

Information for contributing exposure scenario		
2.1 Qualitative approach used to conclude safe use		

3.2. Environment

Information for contributing exposure scenario	
2.2	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

4.1. Health

Guidance - Health	Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels	
Website	http://guidance.echa.europa.eu/	

4.2. Environment

Additional good practice advice beyond the REACH CSA

Additional good practice advice	Minimise number of staff exposed. Segregation of the emitting process. Effective contaminant extraction.	
	Minimisation of manual phases. Avoid contact with contaminated tools and objects. Regular cleaning of	
	equipment and work area. Supervision in place to check that the RMMs in place are being used correctly	
	and OCs followed. Training staff on good practice. Good standard of personal hygiene	
	7 7 7	

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ERC4

ERC6a

ERC7

Product characteristics

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1. Exposure scenario ES3

Consumer use: Fertilizer & Other Products

ES Ref.: ES3 Association ref code: ES3
ES Type: Consumer Date of issue: 03/02/2015
Version: 1.0
Revision date: 24/05/2016

Use descriptors	SU21 PC4, PC12, PC35, PC39 ERC8a, ERC8b, ERC8d, ERC8e, ERC9a, ERC9b
Processes, tasks, activities covered	Consumer use
Assessment method	The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures Oxidising properties) Qualitative approach used to conclude safe use

	Oxidis	sing properties) Qualitative approach used to conclude	e sale use
2. Operational conditions and risk management measures			
2.1 Contributing scenario consumer end-use (PC4, PC12, PC35)			
PROC1	Use in closed process, no likelihood of exposure		
PROC2	Use in closed, continuous	process with occasional controlled exposure	
PROC3	Use in closed batch proces	ss (synthesis or formulation)	
PROC4	Use in batch and other pro	cess (synthesis) where opportunity for exposure arises	
PROC5	Mixing or blending in batch contact)	processes for formulation of preparations and articles (multistage and/or significant
PROC7	Industrial spraying		
PROC8a	Transfer of substance or profacilities	reparation (charging/discharging) from/to vessels/large of	containers at non dedicated
PROC8b	Transfer of substance or p	reparation (charging/discharging) from/to vessels/large o	containers at dedicated facilities
PROC9	Transfer of substance or p	reparation into small containers (dedicated filling line, inc	cluding weighing)
PROC10	Roller application or brushi	ing	
PROC13	Treatment of articles by dip	oping and pouring	
PROC14	Production of preparations	or articles by tabletting, compression, extrusion, pelletis	ation
PROC15	Use as laboratory reagent		
PROC19	Hand-mixing with intimate contact and only PPE available		
PROC20	Heat and pressure transfer fluids in dispersive use but closed systems		
PROC22	Potentially closed processing operations with minerals/metals at elevated temperature Industrial setting		
PROC23	Open processing and trans	sfer operations with minerals/metals at elevated tempera	iture
PROC26	Handling of solid inorganic	substances at ambient temperature	
PC4	Anti-Freeze and De-icing p	products	
PC12	Fertilizers		
PC35	Washing and cleaning prod	ducts (including solvent based products)	
Product characteristics			
Physical form of product		Solid, Liquid	
Dustiness		Solid, low dustiness	
Operational conditions			
Other given operational conditions affecting consumers exposure		outdoor,indoor	
Risk Management Measures			
	Conditions and measures related to information and behavioural advice to consumers Observe the label precautions		
2.2 Contributing scena	ario controlling environme	ntal exposure (ERC2, ERC4, ERC6a, ERC7)	
ERC2	Formulation of preparation	s	
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Industrial use resulting in manufacture of another substance (use of intermediates)

Industrial use of substances in closed systems

Industrial use of processing aids in processes and products, not becoming part of articles

Safety Data Sheet

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

Physical form of product	Liquid, Solid
Dustiness	Solid, low dustiness

Operational conditions

No additional information

Risk Management Measures

No additional information

3. Exposure estimation and reference to its source

3.1. Health

Information for contributing	nation for contributing exposure scenario	
2.1	Qualitative approach used to conclude safe use,PC 39: In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC	

3.2. Environment

Information for contributing exposure scenario	
2.2	As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

4.1. Health

4.2. Environment

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