

Product no.: CE 000 C0040 UK

Current version: 1.0.0. issued: 09.12.2019 Replaced version: -. issued: -Region: GB

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

Product identifier

Trade name

Poliverdol

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

Relevant identified uses of the substance or mixture

Foliar Nutrient

Uses advised against

No data available.

Details of the supplier of the safety data sheet 1.3

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Advice on Safety Data Sheet

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1.4 **Emergency telephone number**

Carechem 24 GB: +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

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

Hazard pictograms

Signal word

Hazard statement(s)

Hazard statements (EU)

EUH210 Safety data sheet available on request.

Precautionary statement(s)

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards



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No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additio	onal information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Conce	ntration	%
1	POTASSIUM NITRA	TE .			
	7757-79-1	Ox. Sol. 3; H272	>=	5.00 - < 10.00	%-b.w.
	231-818-8				
	-				
	01-2119488224-35				
2	ammonium nitrate				
	6484-52-2	Ox. Sol. 3; H272	>=	5.00 - < 10.00	%-b.w.
	229-347-8	Eye Irrit. 2; H319			
	-				
	01-2119490981-27				
3	phosphoric acid		pls. ref		
	7664-38-2	Skin Corr. 1B; H314	<	5.00	%-b.w.
	231-633-2	Eye Dam. 1; H318			
	015-011-00-6				
	-				
4	copper sulphate, 5-	hydrate			
	7758-99-8	Acute Tox. 4; H302	<	0.10	%-b.w.
	231-847-6	Skin Irrit. 2; H315			
	029-023-00-4	Eye Irrit. 2; H319			
	01-2119520566-40	Aquatic Acute 1; H400			
		Aquatic Chronic 1; H410			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

⁽¹⁾ Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Eye Irrit. 2; H319: C >= 80%	-	-
3	В	Skin Irrit. 2; H315: C >= 10% Eye Irrit. 2; H319: C >= 10% Skin Corr. 1B; H314: C >= 25% Eye Dam. 1; H318: C >= 25%	-	-
4	-	-	M = 10	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special measures necessary. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact



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Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Call a doctor immediately and show label or packaging. Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); Ammonia (NH3); Nitrous oxides (NOx)

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

Information regarding waste disposal, see chapter 13. Information regarding personal protective measures, see chapter 8. Information regarding safe handling, see chapter 7.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

Advice on protection against fire and explosion

No special measures necessary.



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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Do not store together with foodstuffs.

7.3 Specific end use(s)

Industry solution

Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.
1	phosphoric acid	7664-38-2		231-633-2
	List of approved workplace exposure limits (WELs) /	EH40		
	Orthophosphoric acid			
	WEL short-term (15 min reference period)	2	mg/m³	
	WEL long-term (8-hr TWA reference period)	1	mg/m³	
	2000/39/EC			
	Orthophosphoric acid			
	WEL short-term (15 min reference period)	2	mg/m³	
	WEL long-term (8-hr TWA reference period)	1	mg/m³	

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name	Substance name			
	Route of exposure	Exposure time	Effect	Value	
1	POTASSIUM NITRATE			7757-79-1	
				231-818-8	
	dermal	Long term (chronic)	systemic	20.8	mg/kg/day
	inhalative	Long term (chronic)	systemic	36.7	mg/m³
2	ammonium nitrate			6484-52-2	
				229-347-8	
	dermal	Long term (chronic)	systemic	5.12	mg/kg/day
	inhalative	Long term (chronic)	systemic	36	mg/m³

DNEL value (consumer)

No	Substance name	ubstance name			
	Route of exposure	Exposure time	Effect	Value	
1	POTASSIUM NITRATE			7757-79-1	
				231-818-8	
	oral	Long term (chronic)	systemic	12.5	mg/kg
	dermal	Long term (chronic)	systemic	12.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	10.9	mg/kg
2	ammonium nitrate			6484-52-2	
				229-347-8	
	oral	Long term (chronic)	systemic	2.56	mg/kg/day
	dermal	Long term (chronic)	systemic	2.56	mg/kg/day
	inhalative	Long term (chronic)	systemic	8.9	mg/m³

PNEC values

No	Substance name	CAS / EC no
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	ecological compartment	Туре	Value	
1	POTASSIUM NITRATE		7757-79-1	
			231-818-8	
	water	fresh water	0.45	mg/L
	water	marine water	0.045	mg/L
	water	Aqua intermittent	4.5	mg/L
	sewage treatment plant	-	18	mg/L
2	ammonium nitrate		6484-52-2	
			229-347-8	
	sewage treatment plant	-	18	mg/L

8.2 **Exposure controls**

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

nitrile rubber Appropriate Material

Other

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.

Information on basic physical and chemical properties				
Form/Colour				
liquid				
Odour				
No data available				
Odour threshold				
No data available				
pH value				
Value	5.5			
Source	Manufacturer			
Boiling point / boiling range				
No data available				
Melting point / melting range				
No data available				
Decomposition point / decomposition range				
No data available				

Auto-ignition	on ter	nperature

Flash point No data available



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No data available

Oxidising properties

No data available

Explosive properties

No data available

Flammability (solid, gas)

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate
No data available

Relative density

No data available

Density

Value 1.24 g/cm³

Source Manufacturer

Solubility in water

Comments soluble

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable under normal storage and handling conditions.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None, if handled according to intended use. Beware of drying. Temperatures > 40°C

10.5 Incompatible materials

Alkalis

10.6 Hazardous decomposition products

Ammonia (NH3)



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acu	Acute oral toxicity					
No	Substance name		CAS no.		EC no.	
1	POTASSIUM NITRATE		7757-79-1		231-818-8	
LD5	0	>		2000	mg/kg bodyweight	
Spec	cies	rat				
Meth	nod	OECD 425				
Soul	rce	ECHA				

Acu	Acute dermal toxicity					
No	Substance name		CAS no.		EC no.	
1	POTASSIUM NITRATE		7757-79-1		231-818-8	
LD5	0	>		5000	mg/kg bodyweight	
Spe	cies	rat				
Meth	nod	OECD 402				
Sou	rce	ECHA				

Acu	Acute inhalational toxicity					
No	Substance name	CAS r	10.	EC no.		
1	POTASSIUM NITRATE	7757-7	79-1	231-818-8		
LC5	0	>	0.527	mg/l		
Dura	ation of exposure		4	h		
State	e of aggregation	Dust				
Spe	cies	rat				
Meth	nod	OECD 403				
Sou	rce	ECHA				
Eval	uation/classification	Based on available of	lata, the classification	criteria are not met.		

Skir	Skin corrosion/irritation				
No	Substance name	CAS no.	EC no.		
1	POTASSIUM NITRATE	7757-79-1	231-818-8		
Spe	cies	rabbit			
with	reference to	CAS 6484-52-2			
Meth	nod	OECD 404			
Sou	rce	ECHA			
Eval	uation	non-irritant			

Seri	Serious eye damage/irritation				
No	Substance name	CAS no.	EC no.		
1	POTASSIUM NITRATE	7757-79-1	231-818-8		
Meth	nod	OECD 437			
Sou	rce	ECHA			
Eval	uation	non-irritant			

Res	piratory or skin sensitisation		
No	Substance name	CAS no.	EC no.
1	POTASSIUM NITRATE	7757-79-1	231-818-8
Rou	te of exposure	Skin	
Spec	cies	mouse	
Meth	nod	OECD 429	
Soul	rce	ECHA	
Eval	uation	non-sensitizing	

Ger	Germ cell mutagenicity				
No	Substance name	CAS no.	EC no.		
1	POTASSIUM NITRATE	7757-79-1	231-818-8		
Sou	rce	ECHA			
Evaluation/classification		Based on available data, the classification	n criteria are not met.		

Rep	roduction toxicity			
No	Substance name	CAS no.	EC no.	



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1	POTASSIUM NITRATE	7757-79-1	231-818-8
Sou	rce	ECHA	
Eval	uation/classification	Based on available data, the classification	n criteria are not met.

Carcinogenicity
No data available

STOT - single exposure
No data available

STO	STOT - repeated exposure				
No	Substance name	CAS no.	EC no.		
1	POTASSIUM NITRATE	7757-79-1	231-818-8		
Rou	te of exposure	oral			
Spe	cies	rat			
Meth	nod	OECD 422			
Sou	rce	ECHA			
Eval	uation/classification	Based on available data, the classification	n criteria are not met.		

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

Tox	Toxicity to fish (acute)				
No	Substance name	CAS no.		EC no.	
1	POTASSIUM NITRATE	7757-79-1		231-818-8	
LC5	0		1378	mg/l	
Dura	ation of exposure		96	h	
Spe	cies	Poecilia reticulata			
Meth	nod	OECD 203			
Sou	rce	ECHA			

Toxicity to fish (chronic)

No data available

Toxi	Toxicity to Daphnia (acute)				
No	Substance name	CAS no.		EC no.	
1	POTASSIUM NITRATE	7757-79-1		231-818-8	
EC5	0		490	mg/l	
Dura	ation of exposure		48	h	
Spec	cies	Daphnia magna			
Soul	rce	ECHA			

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute) No data available

Toxicity to algae (chronic)				
No Substance name	CAS no.		EC no.	
1 POTASSIUM NITRATE	7757-79-1		231-818-8	
NOEC		1700	mg/l	
Duration of exposure		10	day(s)	
Species	Algae			
Source	ECHA			
2 ammonium nitrate	6484-52-2		229-347-8	
EC50	>	1700	mg/l	
Duration of exposure		10	day(s)	
Species	Algae			
with reference to	CAS 7757-79-1			
Source	ECHA			



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Bac	Bacteria toxicity				
No	Substance name	CAS no.		EC no.	
1	POTASSIUM NITRATE	7757-79-1		231-818-8	
EC5	0	>	1000	mg/l	
Dura	ation of exposure		3	h	
Spe	cies	activated sludge			
Meth	nod	OECD 209			
Sou	rce	ECHA			

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

	mation

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information

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



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EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	ammonium nitrate	6484-52-2	229-347-8	58, 65
2	ammonium-sulphate	7783-20-2	231-984-1	65
3	diammonium hydrogenorthophosphate	7783-28-0	231-987-8	65

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H272 May intensify fire; oxidiser. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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