Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II / Regulation (EU) No. 2015/830.

- United Kingdom (UK)

Date of issue/ Date of revision : 07.01.2021
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Version : 3.0



SAFETY DATA SHEET

SOLUMOP

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

1.1 Product identifier

Product name : SOLUMOP
EC number : 231-211-8
REACH Registration number : Exempted
CAS number : 7447-40-7
Product code : PZ01LG
Product type : Solid
Chemical formula : KCI

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

Identified uses

Industrial distribution.

Industrial USE to formulate chemical product mixtures.

Professional formulation of fertiliser products.

Professional USE as fertiliser at Farm - loading and spreading.

Professional USE as fertiliser in Greenhouse. Professional USE as liquid fertiliser in open field.

Professional USE as fertiliser - maintenance of equipment.

Uses advised against : None identified.

1.3 Details of the supplier of the safety data sheet

Yara UK Limited

<u>Address</u>

Street : Harvest House, Europarc

Postal code : DN37 9TZ

City : Grimsby, North East Lincolnshire

Country : United Kingdom
Telephone number : +44 (0) 1472 889250
Fax no. : +44 (0) 1472 889251
e-mail address of person : yarauk.hesq@yara.com

responsible for this SDS

Date of issue : 07.01.2021 Page:1/14

1.4 Emergency telephone number

National advisory body/Poison : Not

Center

Not available.

Supplier

Emergency telephone number

National Chemical Emergency Centre

(with hours of operation) +44 (0) 1865 407333 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture.

Product definition : Mono-constituent substance

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

Classification : Not classified.

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

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.

Hazard statements : Not applicable.

Precautionary statements : Not applicable.

EU Regulation (EC) No.

1907/2006 (REACH) Annex XVII

- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Special packaging requirements

Containers to be fitted with

child-resistant fastenings

Not applicable.

Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	Р	В	T	vPvB	νP	vB
Not	N/A	N/A	N/A	Not	N/A	N/A
applicable				applicable		
(Inorganic)				(Inorganic)		

Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients

Date of issue : 07.01.2021 Page:2/14

SOLUMOP

3.1 Substances : Mono-constituent substance

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
potassium chloride	RRN: Exempted EC: 231-211-8 CAS: 7447-40-7	100	Not classified.	[A]

Type

[A] Constituent

[B] Impurity

[C] Stabilizing additive

See Section 16 for the full text of the H statements declared above.

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.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Rinse with plenty of running water. Check for and remove any

contact lenses. Get medical attention if irritation occurs.

Inhalation : If inhaled, remove to fresh air. Get medical attention if you feel

unwell.

Skin contact: Wash with soap and water. Get medical attention if irritation

develops.

Ingestion : Wash out mouth with water. If material has been swallowed and

the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health

effects persist or are severe.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist

Date of issue: 07.01.2021 Page:3/14

immediately if large quantities have been ingested or inhaled.

Specific treatments No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

None identified.

media

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

No specific fire or explosion hazard.

Hazardous combustion products

Decomposition products may include the following materials: halogenated compounds, metal oxide/oxides, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed.

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.

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. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

For emergency responders

If specialized 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".

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

Date of issue: 07.01.2021 Page:4/14 authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill

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

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

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

Not for human or animal consumption.

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

Date of issue : 07.01.2021 Page:5/14

8.1 Control parameters

Occupational exposure limits

Remark : No exposure limit value known.

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 monitoring standards, such as the following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General

requirements for the performance of procedures for the measurement of chemical agents)

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: A washing facility or water for eye and skin cleaning purposes should be present. 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. Wash contaminated clothing before reusing.

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.

Skin protection 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. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is

Date of issue : 07.01.2021 Page:6/14

not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the

glove material.

Personal protective equipment for the body should be **Body protection**

selected based on the task being performed and the risks

involved.

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 In case of inadequate ventilation wear respiratory

protection.

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.

Personal protective equipment

(Pictograms)



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state Solid (Crystalline) Color White., /, Pink, Odor Odorless. **Odor threshold** Not determined. 7 [Conc.: 50 g/l] Ha

Melting point/freezing point 773 °C

Initial boiling point and boiling

range

Not determined

Flash point Not applicable

Evaporation rate Not determined Flammability (solid, gas) Non-flammable.

Upper/lower flammability or

Lower: Not determined explosive limits **Upper:** Not determined

Vapor pressure Not determined Vapor density Not determined

Relative density 1.98

Bulk density 790 - 1,110 kg/m3 @ 20 °C

Density 1.988 g/cm3 @ 20 °C 330 g/l @ 20 °C Water solubility

Date of issue: 07.01.2021 Page:7/14 Partition coefficient: n-

octanol/water

: Not determined

Auto-ignition temperature

Viscosity

: Not determined

: **Dynamic:** Not determined. **Kinematic:**Not determined.

Explosive properties : Non-explosive.

Oxidizing properties : None

9.2 Other informationNo additional information.

SECTION 10: Stability and reactivity

10.1 ReactivityNo 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 : Avoid contamination by any source including metals, dust

and organic materials.

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/ingredie nt name	Method	Species	Result	Exposure	References
potassium chloride					
	LD50 Oral	Rat	3,020 mg/kg	Not applicable.	ECHA

Conclusion/Summary: No known significant effects or critical hazards.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
No tradename available.	2,500 mg/kg	N/A	N/A	N/A	N/A
potassium chloride	3,020 mg/kg	N/A	N/A	N/A	N/A

Irritation/Corrosion

Date of issue: 07.01.2021 Page:8/14

Conclusion/Summary

Skin
 Eyes
 No known significant effects or critical hazards.
 Respiratory
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

SkinNo known significant effects or critical hazards.
Respiratory
No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary: No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary: No known significant effects or critical hazards.

Information on the likely routes of exposure:

Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:No specific data.Ingestion:No specific data.Skin contact:No specific data.Eye contact:No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Adverse health effects are considered unlikely, when the

product is used according to directions.

Potential delayed effects : None identified.

Long term exposure

Potential immediate effects : Adverse health effects are considered unlikely, when the

product is used according to directions.

Potential delayed effects : None identified.

Potential chronic health effects

Date of issue : 07.01.2021 Page:9/14

SOLUMOP

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Effects on or via lactation : No known significant effects or critical hazards.

Other effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingred	Method	Species	Result	Exposure	References
ient name					
potassium chlorid	е				
	Acute LC50	Fish	2,300 mg/l	48 h	IUCLID 5
	Acute EC50	Daphnia	825 mg/l	48 h	IUCLID 5
	Acute EC50	Algae	2,500 mg/l	72 h	IUCLID 5

Conclusion/Summary : No known significant effects or critical hazards.

12.2 Persistence and degradability

Conclusion/Summary : Readily biodegradable in plants and soils. The product

does not show any bioaccumulation phenomena.

12.3 Bioaccumulative potential

Conclusion/Summary : No known significant effects or critical hazards.

12.4 Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Mobility : This product may move with surface or groundwater flows

because its water solubility is: high

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	νP	vB
potassium chloride	Not applicable	N/A	N/A	N/A	Not applicable	N/A	N/A
	(Inorganic)				(Inorganic)		

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

SECTION 13: Disposal considerations

Date of issue : 07.01.2021 Page:10/14

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 minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

Packaging

Methods of disposal

The generation of waste should be avoided or minimized 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.

Empty containers or liners may retain some product residues.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

Regulation: ADN		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name	Not applicable.	
14.3 Transport hazard class(es)	Not applicable.	

Date of issue : 07.01.2021 Page:11/14

14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
<u>Danger code</u>	: Not applicable.

Regulation: IMDG				
14.1 UN number	Not regulated.			
14.2 UN proper shipping name	Not applicable.			
14.3 Transport hazard class(es)	Not applicable.			
14.4 Packing group	Not applicable.			
14.5 Environmental hazards	No.			
Additional information				

Regulation: IATA			
14.1 UN number	Not regulated.		
14.2 UN proper shipping name	Not applicable.		
14.3 Transport hazard class(es)	Not applicable.		
14.4 Packing group	Not applicable.		
14.5 Environmental hazards	No.		
Additional information <u>Marine pollutant</u>	: No.		

14.6 Special precautions for

<u>user</u>

Transport within user's premises: Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

14.7 Transport in bulk according to IMO instruments

Not applicable.

14.8 IMSBC

Bulk cargo shipping name : POTASSIUM CHLORIDE

Class : Not applicable.

Group : C

Marpol V : Non-HME

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 authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

EU Regulation (EC) No.

Not applicable.

1907/2006 (REACH) Annex XVII

- Restrictions on the

manufacture, placing on the

Date of issue: 07.01.2021 Page:12/14

market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Europe inventory : All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Biocidal products regulation : Not applicable.

Notes : To our knowledge no other country or state specific

regulations are applicable.

15.2 Chemical Safety

<u>Assessment</u>

Complete.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

[Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative

bw = Body weight

Key data sources : EU REACH ECHA/IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

Sphera Solutions Inc., 4777 Levy Street, St Laurent,

Quebec HAR 2P9, Canada.

Regulation (EC) No 1272/2008 Annex VI.

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

Date of issue : 07.01.2021 Page:13/14

SOLUMOP

Classification	Justification
Not classified.	Calculation method

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Revision comments: The following sections contain new and updated

information: 1, 3.

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revision

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Prepared by : Yara Chemical Compliance (YCC).

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.

Date of issue: 07.01.2021 Page:14/14