

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
 Trade name : HAIFA GROWCLEAN 5-31-40
 Type of product : Fertilizer
 Product group : EC FERTILIZER

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Industrial/Professional use spec : For professional use only
 Function or use category : Fertilisers

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Haifa Chemicals North West Europe BVBA
 Generaal de Wittelaan 17
 P.O. Box bus 16
 B-2800 Mechelen - Belgium
 T +32-15-270811 - F +32-15-270815
NorthWestEurope@haifa-group.com - www.haifa-group.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Serious eye damage/eye irritation, Category H319
 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

Safety Data Sheet

HAIFA GROWCLEAN 5-31-40

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



Hazard statements (CLP)	: H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves, eye protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1)	(CAS-No.) 14887-42-4 (EC-No.) 238-961-5 (REACH-no) 01-2119510125-56	28	Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove contaminated clothing or footwear.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash with plenty of water/.... If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Consult an ophthalmologist if irritation persists. Do not apply (chemical) neutralizing agents. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Ingestion of large quantities: immediately to hospital. If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water. Consult a doctor/medical service if you feel unwell. Do NOT induce vomiting.

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

Symptoms/effects	: Irritation of the eye tissue.
Symptoms/effects after inhalation	: May cause respiratory irritation. Dry/sore throat. Dust :
Symptoms/effects after skin contact	: Contact during a long period may cause light irritation. Red skin.
Symptoms/effects after eye contact	: Redness of the eye tissue. Serious damage to eyes.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. On ingestion in large quantities: Blood in stool. Methemoglobinemia. Symptoms may be delayed. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Affect the renal tissue. Enlargement/affection of the liver. Disturbances of heart rate.

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

Delayed adverse effects possible. High temperature decomposition products are harmful by inhalation. Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: high volume water jet.

Safety Data Sheet

HAIFA GROWCLEAN 5-31-40

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



5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not combustible but enhances combustion of other substances. When heated to decomposition, emits toxic fumes.
- Explosion hazard : Product is not explosive.
- Reactivity in case of fire : May intensify fire; oxidiser.
- Hazardous decomposition products in case of fire : Nitrogen oxides. Potassium oxides. Phosphorus oxides.

5.3. Advice for firefighters

- Precautionary measures fire : Keep upwind.
- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.
- Other information : Move containers from fire area if it can be done without personal risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Even though no specific eye irritation data are available, wear eye protection appropriate to conditions of use when handling this material.
- Emergency procedures : No open flames, no sparks, and no smoking.
- Measures in case of dust release : Avoid breathing dust, mist or spray. Respiratory protective device with a particle filter.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Collect all waste in suitable and labelled containers and dispose according to local legislation.
- Methods for cleaning up : Large spills: scoop solid spill into closing containers. Minimize generation of dust. On land, sweep or shovel into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Minimize generation of dust. Do not breathe dust. Avoid contact with skin and eyes. Always wash hands after handling the product.
- Precautions for safe handling : Provide local exhaust or general room ventilation. Keep away from sources of ignition - No smoking. Avoid dust formation. Keep container tightly closed to avoid moisture absorption and contamination. Take off contaminated clothing. Do not discharge the waste into the drain.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Water, humidity. Keep container tightly closed.
- Incompatible products : Strong acids. Strong bases. alkalis.
- Incompatible materials : Do not use with copper/aluminium/zinc - risk of corrosion.
- Storage area : Store on an acid resistant underground.
- Packaging materials : Suitable packing materials. Synthetic material.

7.3. Specific end use(s)

Fertilizers.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

No additional information available

8.2. Exposure controls**Appropriate engineering controls:**

Do not exceed the occupational exposure limits (OEL). Provide adequate ventilation to minimize dust concentrations. Handle product only in closed system or provide appropriate exhaust ventilation. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Gloves. Protective clothing. Dust formation: dust mask. Protective goggles.

Hand protection:

Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Butyl rubber		0.7		
	Viton® II				
	Nitrile rubber (NBR)		0.4		
	Natural rubber				
	Chloroprene rubber (CR)		0.5		
	Neoprene rubber (HNBR)				

Eye protection:

Chemical goggles. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Dust production: dust mask with filter type P2. EN 143. EN 149

Personal protective equipment symbol(s):**Environmental exposure controls:**

Assure that emissions are compliant with all applicable air pollution control regulations. May cause eutrophication at very low concentration.

Other information:

Do not eat, drink or smoke during use. Avoid contact with skin and eyes. Always wash hands after handling the product.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state : Solid
 Appearance : Crystalline powder.
 Colour : white.



Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 127 °C POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: > 200 °C POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1)
Flammability (solid, gas)	: The product is not flammable
Vapour pressure	: 1.47 kPa POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1)
Relative vapour density at 20 °C	: No data available
Relative density	: Not determined
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No direct explosion hazard.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Other properties : Hygroscopic.

SECTION 10: Stability and reactivity**10.1. Reactivity**

May intensify fire; oxidiser. In case of fire, irritating gases come free. May react violently with alkalis.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under recommended storage and handling conditions (see section 7).

10.4. Conditions to avoid

Avoid dust formation. Heat. Moisture.

10.5. Incompatible materials

Organic materials. Strong bases. Strong acids. Oxidizing agents and reducing agents. May be corrosive to metals. alkalis.

10.6. Hazardous decomposition products

On heating or during combustion : release of (highly) toxic gases/vapours. ammonia. Nitrogen oxides. Phosphorous oxide.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1) (14887-42-4)	
LD50 oral rat	> 2000 mg/kg (OECD 425 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
Skin corrosion/irritation	: Not classified



Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

12.2. Persistence and degradability

POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1) (14887-42-4)	
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1) (14887-42-4)	
Log Pow	Not applicable
Bioaccumulative potential	Does not accumulate in organisms.

12.4. Mobility in soil

POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1) (14887-42-4)	
Ecology - soil	Soluble in water.

12.5. Results of PBT and vPvB assessment

Component	
POTASSIUM PENTAHYDROGEN BIS(PHOSPHATE) PHOSPHORIC ACID, POTASSIUM SALT (2:1) (14887-42-4)	PBT: not relevant – no registration required vPvB: not relevant – no registration required

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Recycle or dispose of in compliance with current legislation. Disposal must be done according to official regulations.
Sewage disposal recommendations	: Prevent product from entering drains. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.
Additional information	: Container remains hazardous when empty. Continue to observe all precautions. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
European List of Waste (LoW) code	: 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable



UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

14.3. Transport hazard class(es)**ADR**

Transport hazard class(es) (ADR)	: Not applicable
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IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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IATA

Transport hazard class(es) (IATA)	: Not applicable
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ADN

Transport hazard class(es) (ADN)	: Not applicable
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RID

Transport hazard class(es) (RID)	: Not applicable
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14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

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**

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : Subject to 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. (ANNEX II: Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported.).

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Irrit. 2	H319	Calculation method
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Revision date:20/03/2018

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