Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Sincron+ Top Dressing

Version:2.0 Revision date: 20.12.2022 Print date: 20.12.2022

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product identifier **Sincron + Top Dressing**

1.2 Relevant identified use Horticultural Fertiliser

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 (e.g. Fertigation)
Professional USE as fertiliser – maintenance of equipment

1.3 Details of the supplier of the safety data sheet:

Westland Horticulture Ltd
Bridges Road
Ellesmere Port
Chester
CH65 4LD

Sinclair Pro is a subsidiary of Westland Horticulture Ltd

Email customerservice@Westland.com

1.4 Emergency telephone number 01480 443789 (UK) 24hrs

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:

H412 Aquatic chronic 3

2.2 Label Elements According to Regulation (EC) No 1272/2008:

Signal Word: none

Hazard statements: Harmful to aquatic life with long lasting effects.

Precautionary statements: P273 Avoid release to the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N/A

3.2 Description Horticultural fertiliser NPK 16-7-15 + 2MgO +9S +Trace Elements

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Ammonium nitrate	CAS: 6484-52-2	<45		Ox. Sol. 3 H272 Eye Irrit. 2 H319
N,N (isobutylidene) diurea	CAS: 6104-30-9	10-45	N/A	N/A
Iron (II) sulphate	CAS: 7720-78-7	<3	N/A	Acute Tox. 4 H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315
Disodium tetraborate pentahydrate	CAS: 12179-04-3	<0.2	N/A	Repr. 1B H360FD Eye Irrit. 2 H319
Copper sulphate	CAS: 7758-98-7	<0.05	N/A	Eye Irrit. 2 H319 Skin Irrit. 2 H315 Aquatic Acute. 1 H400 Aquatic Chronic. 1 H410 Acute Tox. 4 H302

Additional information: See Section 16 for the full text of the H statements declared above

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or physician or going for treatment.

Inhalation: Move person to fresh air.
Keep patient warm and at rest.

Get medical advice if symptoms persist or develop

Skin Contact: Wash off with soap and plenty of water.
Get medical advice if irritation persists or develop

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses and continue flushing.
Get medical attention if symptoms persist or develop

Ingestion: Do not induce vomiting unless directed to do so by medical personnel
Rinse out mouth and then drink water
Get medical attention if symptoms persist or develop

4.2 Most important symptoms and effects, both acute and delayed
None known

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

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:
Use flooding quantities of water for extinction.

5.2 Specific Hazards Arising from the Substance or Mixture:
Fire will produce hazardous products of combustion.
Exposure to decomposition products may be a hazard to health. These may include carbon dioxide, carbon monoxide, nitrogen oxides and ammonia.
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5.3 Advice for Fire Fighters:
Wear full protective clothing and self-contained breathing apparatus as required.

Additional Information:
Cool endangered containers with water spray
Do not allow molten material or run-off from firefighting to enter drains or water courses.
If fire run-off water enters drains or water course, inform the appropriate water authorities immediately. This material is harmful to aquatic life with long lasting effects.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation / breathing of dust
Avoid contact with skin and eyes
Ensure adequate ventilation
Use Personal Protective Equipment: coveralls, gloves, and eye/face protection

6.2 Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

6.3 Methods and Materials for Containment and Cleaning Up:

Vacuum or sweep up material.
Place into suitable labelled containers for disposal according to local / national regulations

Additional information: If large quantities of the product contaminate water courses or drains (including via contaminated soil & vegetation), inform respective authorities.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling:

- Prevent dust formation and inhalation
- Avoid contact with eyes and skin
- Wear gloves when handling the product over long periods of time
- Do not eat, drink, or smoke when using this product
- Take off contaminated clothing and wash before reuse
- Avoid unnecessary exposure to atmosphere to prevent moisture pick up
- Wash hands and observe good hygiene practice after handling this product

7.2 Conditions for safe storage, including any incompatibilities

- Keep containers closed tightly in a dry, cool, and well-ventilated place.
- Keep product in original labelled containers
- Storage areas should be appropriately sited to prevent contamination of drains or watercourses
- Keep out of the reach of children

7.3 Specific End Uses:
Supplied for professional use for top dressing to supply nutrients to potted plants in horticulture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace: N/A

Ingredient	Work Exposure Limit (WEL)	
	Long-term Exposure Limit (8-hr TWA reference period)	**Short-term Exposure Limit (15 minute reference period)**
Ammonium nitrate	Total inhalable 36.7mg/m^3 Dermal 21.3mg/kg/bw/day Ingestion 12.8mg/kg bw	
N,N (isobutyldiene) diurea	Total inhalable 16.31mg/m^3 Dermal 18.75mg/kg/bw/day Ingestion 9.375mg/kg bw	
Copper sulphate pentahydrate	Dermal 137mg/kg/bw/day	

8.2 Exposure Controls

8.2.1 Appropriate engineering controls: No special ventilation requirements.
Avoid high dust concentration and provide ventilation where necessary

8.2.2 Personal protective equipment: The use of technical measures should always have priority over the use of personal protective equipment A risk assessment based on the task being performed and the risks involved should be carried out to determine personal protection equipment required. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards

Respiratory Protection: Not necessary if room is well ventilated
Use suitable dust respirator if dust concentration is high (Filter P2)

Hand Protection: Wear suitable gloves when handling the product over long periods or if a risk assessment indicates this is necessary. Gloves complying with EN420

Eye Protection: Wear eye protection when a risk assessment indicates this is necessary to avoid exposure to dust. Safety glasses complying with EN166 as a minimum

Skin and Body Protection: Protective work clothing

8.2.3 Environmental exposure controls: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: solid

Physical state: solid

Colour: green

Odour: faint

Odour threshold: none known

9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	**6.2**	**-**	**-**	**20 ºC**	**-**	**-**
Melting point/freezing point	**-**	**-**	**-**	**-**	**-**	**-**
Initial boiling point/boiling range	**-**	**-**	**-**	**-**	**-**	**-**
Flash point	**-**	**-**	**-**	**-**	**-**	**-**
Evaporation rate	**-**	**-**	**-**	**-**	**-**	**-**
Flammability (solid, gas)	**-**	**-**	**-**	**-**	**-**	**-**
Upper/lower flammability or explosive limits	**-**	**-**	**-**	**-**	**-**	**-**
Upper explosive limits	**-**	**-**	**-**	**-**	**-**	**-**
Lower explosive limits	**-**	**-**	**-**	**-**	**-**	**-**
Vapour pressure	**-**	**-**	**-**	**-**	**-**	**-**
Vapour density	**-**	**-**	**-**	**-**	**-**	**-**
Relative density	**0.86kg/ dm^3**	**-**	**-**	**-**	**-**	**-**
Solubility(ies)	**Soluble in water**	**-**	**-**	**-**	**-**	**-**
Partition coefficient: n-octanol/water	**-**	**-**	**-**	**-**	**-**	**-**
Auto-ignition temperature	**-**	**-**	**-**	**-**	**-**	**-**
Decomposition temperature	**-**	**-**	**-**	**-**	**-**	**-**
Viscosity	**-**	**-**	**-**	**-**	**-**	**-**
Viscosity, dynamic	**-**	**-**	**-**	**-**	**-**	**-**
Viscosity, cinematic	**-**	**-**	**-**	**-**	**-**	**-**
Explosive properties	**-**	**-**	**-**	**-**	**-**	**-**
Oxidising properties	**-**	**-**	**-**	**-**	**-**	**-**
EC (mS/cm)	**0.7**			**20°C**		

Physical hazards: none known

10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable under normal conditions of storage, handling, and use

10.2 Chemical Stability: Stable under normal conditions of storage, handling, and use

10.3 Possible hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions To Avoid: Avoid contamination by any source, including metals, dust and organic materials.

10.5 Incompatible Materials: Avoid Alkalis, combustible materials, and reducing materials, Urea reacts with calcium hypochlorite or sodium hypochlorite to form explosive nitrogen trichloride. Avoid organic materials and acids.

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

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

The product has not been tested.

Acute toxicity

Practical experience / human evidence:

Animal data:

Ammonium nitrate

LD50 oral (Rat) : >29500 mg/kg
LD50 dermal (Rat) : >5000mg/kg

N,N, (isobutylidene)- diurea

LD50 oral (Rat) : >10000 mg/kg
LD50 dermal (Rat) : >2000mg/kg

Copper sulphate pentahydrate

LD50 oral (Rat) >400mg/kg
LD50 dermal (Rat) >2000mg/kg

Acute Toxicity: Not expected to be toxic, however if large quantities are ingested, seek medical advice

Skin corrosion/Irritation: The mixture is not classified as skin irritant based on formulation components

Eye damage/Irritation: The mixture may cause eye irritation.

Respiratory or Skin Sensitization: The mixture is not classified as a sensitizer based on formulation components

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
The mixture is not classified as mutagenic, carcinogen, reproductive toxic or aspiration hazard based on formulation components

Other information: May cause effects on the blood system resulting in the formation of methaemoglobin. The effects may be delayed. Seek medical advice

12. ECOLOGICAL INFORMATION

The mixture has not been tested.

12.1 Toxicity: The toxicity data has been derived from components

Ammonium nitrate

- **Toxicity To Fish:** LC50 Oncorhynchus mykiss (rainbow trout), >100 mg/l, 96h

- **Toxicity To Aquatic Invertebrates:** EC50 Daphnia magna (water flea), 100 mg/l, 48h
- **Toxicity To Aquatic Plants:** EbC50 Pseudokirchneriella subcapitata (green algae), 100 mg/l, 240h

N,N (isobutyldilene)-diurea

- **Toxicity To Fish:** LC50 Oncorhynchus mykiss (rainbow trout), >1000 mg/l, 96h
- **Toxicity To Aquatic Invertebrates:** EC50 Daphnia magna (water flea), 500 mg/l, 48h
- **Toxicity To Aquatic Plants:** EbC50 Pseudokirchneriella subcapitata (green algae), 500 mg/l, 240h

Copper sulphate pentahydrate

- **Toxicity To Fish:** Acute LC50 Oncorhynchus mykiss (rainbow trout), 0.09 mg/l, 96h
- **Toxicity To Aquatic Plants:** Acute EC50 Pseudokirchneriella subcapitata (green algae), 0.0211 mg/l, 4d

Harmful to aquatic life with long lasting effects

12.2 Persistence and Degradability: No information available on mixture

12.3 Bioaccumulative Potential: No information available on mixture

12.4 Mobility in Soil: No information available on mixture

12.5 PBT and vPvB assessment: No information available on mixture

12.6 Other adverse effects: Information not available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not contaminate ponds, waterways, or ditches with significant quantities of product. Check if agriculture use is possible. Dispose of by use on farm as a fertiliser, by spreading thinly on open ground. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated Packaging: Empty remaining contents.
Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations

14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.2 UN Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Transport hazard class(es)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Hazard label(s)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.4 Packing group	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.5 Environmental hazards	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

14.6 Special precautions for user: None known

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information: None known

15. REGULATORY INFORMATION

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

This mixture is classified in accordance with Regulation 1272/2008.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been undertaken for this mixture

16. OTHER INFORMATION

16.1 Indication of changes: Revised and updated.

16.2 Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
Directive 67/548/EEC	Dangerous Substances Directive (DSD)
EC No	European Community Number for chemicals within EU regulations
IATA-DGR	Dangerous Goods Regulations by the International Air Transport Association
IMDG Code	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic Properties
Regulation (EC) No 1272/2008	Classification, Labelling and Packaging (CLP)
RID	International Transport of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative Properties

16.3 Key literature references and sources for data: Westland Horticulture Ltd

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]: See SECTION 2.1 (classification).

16.5 Relevant H- and EUH-phrases (number and full text):

H272	May intensify fire; oxidiser
H319	Causes serious eye irritation

16.6 Training advice: Follow the instructions

16.7 Further information
Before using this product, ensure that you read and understand its label

MSDS information:
This Safety Data Sheet is prepared in compliance with Regulation 1272/2008 and Annex I of the REACH regulation 453/2010.

This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication.Westland Horticulture Limited does not accept responsibility for damage caused by incorrect use of this information.

Training and related advice:
This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.