

Safety Data Sheet

according to Regulation (EU) No. 2015/830

Date of issue: 10/12/2012 Revision date: 10/10/2013 Supersedes: 10/12/2012 Version: 2.0

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

1.1. Product identifier

Product form : Mixture

Name : Humistart containing Zinc Oxide (≥0,2% Zn and <2% Zn)

Product code : HUMISTART01A

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

TIMAC AGRO USA, INC P.O. Box 888 - Route 724 & I-176 READING - USA T 1-800-545-5474

info-fds@roullier.com

Manufacturer

TIMAC AGRO 27 avenue Franklin Roosevelt 35408 Saint-Malo cedex - FRANCE

T +33 2 99 20 65 20

info-fds@roullier.com - www.roullier.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Americas	3E (24h/7d)		+1-760-476-3962 (Access code : 333021)
USA	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aquatic Chronic 3 H412

Full text of H-statements: see section 16

2.2. Label elements

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

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P501 - Dispose of this material and its container to hazardous or special waste collection point,

in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc oxide	(CAS No) 1314-13-2 (EC no) 215-222-5 (EC index no) 030-013-00-7 (REACH-no) 01- 2119463881-32	0,25 - 2,49	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move to fresh air in case of accidental inhalation.

First-aid measures after skin contact : After contact with skin, wash immediately with plenty of water and soap. If irritation persists,

consult a doctor.

First-aid measures after eye contact : Rinse immediately and thoroughly with clean water during at least 15 minutes, keeping the

eyes wide open. Consult an eye specialist if an irritation appears.

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

If you feel unwell, seek medical advice.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam, powder, carbon dioxide (CO2), water spray.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non combustible.

5.3. Advice for firefighters

Other information : Avoid pouring fire water down the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. See chapter 8.

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

Do not allow into drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. Carefully collect remainder. Scoop absorbed substance into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.

Clean contaminated surfaces with an excess of water. Do not discharge the waste into the

C

No additional information available

SECTION 7: Handling and storage

Reference to other sections

7.1. Precautions for safe handling

Additional hazards when processed : Do not allow into drains or water courses.

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures : Do not eat, drink or smoke in areas where product is used.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store at ambient temperature.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Zinc oxide (1314-13-2)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	3,1 mg/m³ Zinc oxide	

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Zinc oxide (1314-13-2)					
DNEL/DMEL (General population)					
Acute - systemic effects, inhalation 1,5 mg/m³ Zinc oxide					
PNEC (Water)					
PNEC aqua (freshwater)	0,0256 mg/l Zinc oxide				
PNEC aqua (marine water)	0,0076 mg/l Zinc oxide				
PNEC (Sediment)					
PNEC sediment (freshwater)	146 mg/kg dwt Zinc oxide				
PNEC sediment (marine water)	70,3 mg/kg dwt Zinc oxide				
PNEC (Soil)					
PNEC soil	44,3 mg/kg dwt Zinc oxide				
PNEC (STP)					
PNEC sewage treatment plant	0,0647 mg/l Zinc oxide				
8.2. Exposure controls					

: butyl rubber gloves. Latex gloves Hand protection

Eye protection : Safety glasses

: No special clothing/skin protection equipment is recommended under normal conditions of use Skin and body protection

Respiratory protection No special respiratory protection equipment is recommended under normal conditions of use

with adequate ventilation

Other information Always wash hands after handling the product. If on skin, take off contaminated clothing. Do

not eat, drink or smoke in areas where product is used.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Solid Colour Off white. Odour : odourless. Odour threshold : No data available рΗ 7 - 9 Aqueous solution Relative evaporation rate (butyl acetate=1) : No data available

Melting point : > 780 °C

Freezing point : No data available Boiling point Not applicable Flash point No data available Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C : No data available : No data available Relative density Density 900 - 1100 kg/m³ Solubility No data available Log Pow : Not determined Viscosity, kinematic : No data available Viscosity, dynamic No data available

Oxidising properties : Non-oxidizing. **Explosive limits** Not applicable Not applicable

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive properties

No additional information available

Chemical stability

Stable under normal conditions of use.

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Explosive Not classified.

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Possibility of hazardous reactions

No additional information available

Conditions to avoid

None if handled and used in compliance.

Incompatible materials

No additional information available

Hazardous decomposition products

In the event of fire: see chapter 5.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

	No study has been carried out for the moment on this mixture.
Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LC50 inhalation rat (mg/l)	(4h) > 5700 mg/m³ OECD 403
Skin corrosion/irritation	: May cause slight temporary irritation
	pH: 7 - 9 Aqueous solution
Serious eye damage/irritation	: redness, pain, mild eye irritation
	No study has been carried out for the moment on this mixture.
	pH: 7 - 9 Aqueous solution
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
	No study has been carried out for the moment on this mixture.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
	No study has been carried out for the moment on this mixture.
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
	No study has been carried out for the moment on this mixture.
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
	No study has been carried out for the moment on this mixture.

SECTION 12: Ecological information

Toxicity

: Harmful to aquatic life with long lasting effects. Ecology - water

Zinc oxide (1314-13-2)				
LC50 fish 1	96h 1,1 - 1,5 ppm Oncorhynchus mykiss (Rainbow trout)			
EC50 other aquatic organisms 1	72h 0,17 mg/l algae			
NOFC (chronic)	0.017 mg/l algae			

Persistence and degradability 12.2.

Humistart containing Zinc Oxide (≥0,2% Zn and <2% Zn)				
Persistence and degradability No study has been carried out for the moment on this mixture.				
Zinc oxide (1314-13-2)				
Persistence and degradability No data available.				

12.3. Bioaccumulative potential				
Humistart containing Zinc Oxide (≥0,2% Zn and <2% Zn)				
Log Pow	Not determined			
Bioaccumulative potential No study has been carried out for the moment on this mixture.				
Zinc oxide (1314-13-2)				
Log Pow	2,2			
Bioaccumulative potential	Low bioaccumulation potential.			

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12.4.	Mobilit	y in soil
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Н	umist	art	conta	aining	Zinc	Oxide	(≥0,2%	Zn ar	1d <29	% Zn)

Ecology - soil No study has been carried out for the moment on this mixture.

Zinc oxide (1314-13-2)

Ecology - soil Material nearly insoluble in water.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Additional information : Disposal by incineration or reuse of the material through recycling after cleansing of product

residues

Ecology - waste materials : Do not allow to enter drains or water courses.

SECTION 14: Transport information

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

14.1. UN number

Not regulated for transport

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

IMDG

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

IATA

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

ADN

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

RID

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

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

No data available

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- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

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

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

Zinc oxide

SECTION 16: Other information

Indication of changes:

2	Modified
3	Added
6	Modified
7	Modified
8	Added
11	Modified
12.	Modified
13	Added
13	Added
15.2	Added

Data sources : Section composition

: Section 1.2, 8.1, 11 & 12 are based on components' Chemical Safety Report and/or datas from components' supplier.

Full text of R-, H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

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

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