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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product	ASCORBIC ACID
Resource number	A00018

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

Use	Feed additive for all animal species or categories
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1.3 Details of the supplier of the safety data sheet

Company	Indufarm N.V. Leon Bekaertstraat 5 8770 Ingelmunster (B) Tel: +32 51 624245 info@indufarm.com
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1.4 Emergency telephone number

Poison Centre	UK: +44 121 507 4123 IE: +353 1 837 9964
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2. Hazards identification

2.1 Classification of the substance or mixture

No hazardous product

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2 Label elements

Hazard pictogram(s)

No hazardous product

Signal word(s)

No hazardous product

Hazard statement(s)

No hazardous product

Precautionary statement(s) - Prevention

No hazardous product

Precautionary statement(s) - Response

No hazardous product

Precautionary statement(s) - Storage

No hazardous product

Precautionary statement(s) - Disposal

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No hazardous product

2.3 Other hazards

This mixture could be sensitive to dust explosion. Avoid generating dust, sparks, fire, electrostatic charge and ignition sources.

3. Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Composition

Identification	Classification according to (EC) 1272/2008	%

4. First aid measures

As general rules:

In case of doubt or if symptoms persist, always call a doctor.

First aid personnel should pay attention to their own safety.

If danger of loss of consciousness, place patient in recovery position and transport accordingly.

4.1 Description of first aid measures

In the event of exposure by inhalation

In the event of massive inhalation of dust, remove the person and expose to fresh air. Keep warm and at rest.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of an allergic reaction, seek medical attention.

In the event of contact with eyes

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of contact with skin

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing

NEVER induce swallowing by an unconscious person. Do not give the patient anything orally.

If the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

If the quantity is larger, seek medical attention immediately, showing the label.

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. Please contact a specialist.

5. Firefighting measures

5.1 Extinguishing media

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Suitable extinguishing media

In the event of a fire, use: foam, sprayed water or water mist, dry extinguishing agents and/or chemicals.

Unsuitable extinguishing media

In the event of a fire, do not use: water jet

5.2 Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke, do not breath smoke. Danger of ignition of dust storms.

Exposure to decomposition products (carbon monoxide, carbon dioxide, harmful vapours) may be hazardous to health.

5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid any contact with the skin and eyes.

Avoid inhaling dust.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For emergency responders

Firefighters will be equipped with suitable personal protective equipment (see section 8).

6.2 Environmental precautions

Prevent any material from entering drains or waterways.

6.3 Methods and material for containment and cleaning up

Retrieve the product by mechanical means (sweeping/vacuuming): do not generate dust.

Wash non-retrievable surplus thoroughly with running water.

6.4 Reference to other sections

See section 1 for emergency telephone.

See section 8 for personal protection.

See section 13 for disposal instructions.

7. Handling and storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of asthma, allergies and/or chronic or periodical breathing difficulties should not, under any circumstances, use these mixtures.

7.1 Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Suitable ventilation and dust collection system is required on equipment.

Prevent the formation of dusts.

Fire prevention

Handle in well-ventilated areas. Avoid creating dust.

Prevent access by unauthorised personnel.

Avoid fire, sparks, electrostatic charge and ignition sources.

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Recommended equipment and procedures

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling dust. Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Prohibited equipment and procedures

No smoking, eating or drinking in areas where the mixture is used.

7.2 Conditions for safe storage, including any incompatibilities

Store receptacles dry and hermetically closed to prevent absorption of humidity and contamination.

Store at a temperature below 20°C.

Storage

Keep the container tightly closed in a dry, well-ventilated place

Packaging

Always keep in packaging made of an identical material to the original.

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Personal protection measures, such as personal protective equipment:

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE)



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using

Ensure that there is adequate ventilation, especially in confined areas.

Eye/face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Gloves must be selected according to the application and duration of use (their suitability) for the workstation in question (other chemical product that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required).

Permeation time can be shorter than the theoretical permeation time due to multiple factors like heating.

Recommended properties: Use suitable protective gloves that are resistant to chemical agents in accordance with

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standard EN374 (f.e. protection index 6, permeation time > 480 minutes according to EN374 like nitrile rubber (0,4 mm), chloroprene rubber (0,5 mm), butyl rubber (0,7 mm), etc.)

Body protection

Avoid skin contact and wear suitable protective clothing.

These clothes shall be chosen to ensure there is no inflammation or irritation of the skin at the neck and wrist by contact with the powder.

Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

Recommended properties: Wear protective clothing against solid chemicals and particles suspended in the air (type 5) in accordance with standard EN13982-1 to prevent skin contact.

Respiratory protection

Avoid breathing dust.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device. If the ventilation is insufficient, wear appropriate breathing apparatus.

Recommended properties: a disposable half-mask dust filter in accordance with standard EN149, category: FFP3 or particle filter with efficiency for solid particles according to standard EN143, category: P3.

Thermal hazards

no data available

Environmental exposure controls

Do not empty into drains. This material and its container must be disposed of in a safe way in respect of local laws

Additional exposure precautions

Not intended for human consumption.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Physical state	Solid
Appearance	Meal
Colour	White
Odour	Neutral
Odour treshold	No data available

Important health, safety and environmental information

pH	not relevant
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Vapour pressure	not relevant
Vapour density	not relevant
Evaporation rate	Negligible
Solubility	Not determined

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Relative density	917,0 g/l
Flammability	Not determined
Upper/lower flammability or explosive limits	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not relevant
Explosive properties	Not determined
Oxidising properties	not determined
Partition coefficient: n-octanol/water	not relevant

9.2 Other information

No data available

10. Stability and reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated in section 7. Dust explosion is possible.

10.2 Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3 Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated in section 7.

10.4 Conditions to avoid

Avoid: heat, heating, formation of dusts, humidity, electrostatic charging, ignition sources. Dust can form an explosive mixture with air.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated in section 7.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substances

Acute toxicity

Products may not have been tested. The statements are derived from substances of a similar structure or composition.

Skin corrosion/irritation / Serious eye damage/irritation

Products may not have been tested. The statements are derived from substances of a similar structure or composition.

Respiratory or skin sensitisation

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Products may not have been tested. The statements are derived from substances of a similar structure or composition.

Germ cell mutagenicity

no additional information available

Carcinogenicity

no additional information available

Reproductive toxicity

no additional information available

STOT-single exposure

no additional information available

STOT-repeated exposure

no additional information available

Aspiration hazard

no additional information available

Mixtures

No toxicological data available for the mixture. The statements have been derived from the properties of the individual components.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

No data available.

11.2.2 Information on other hazards

No data available.

12. Ecological information

12.1 Toxicity

Substances

Products may not have been tested. The statements are derived from substances of a similar structure or composition.

Mixtures

No aquatic toxicity data available for the mixture

12.2 Persistence and degradability

Substances

Mixtures

No data available for the mixture

12.3 Bioaccumulative potential

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No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

13. Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with national legislation

13.1 Waste treatment methods

Do not pour into drains or waterways

Waste:

Waste management needs to be carried out without endangering human health, without harming the environment and, in particular, without risk to water, air, soil, plants or animals.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Soiled packaging:

Empty package completely. Keep label(s) on the package. Give to a certified disposal contractor.

Possible re-use after decontamination.

14. Transport information

14.1 UN number or ID number

ADR Not applicable

RID Not applicable

ADN Not applicable

IMDG Not applicable

ICAO Not applicable

14.2 UN proper shipping name

ADR

RID

ADN

IMDG

ICAO

14.3 Transport hazard class(es)

ADR

RID

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ADN

IMDG

ICAO

14.4 Packing group

ADR

RID

ADN

IMDG

ICAO

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

15. Regulatory information

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

Particular provisions

none

15.2 Chemical safety assessment

No data available.

16. Other information

The information provided under subheadings 1-15 is correct to the best of our ability and present knowledge, up-to-date experiences and a perfect and exact process of manipulation, treatment and dosage. However given the numerous factors which are not under our control and may alter manipulation and usage of this product, Nuscience does not assume either responsibilities or obligations for the recommendations made, be it for results or for claims and damages which may derive from its utilisation. The users are required to observe the recommendations in this document in order to avoid risks, but should carry out their own tests and controls and confirmations of resulting products, using the product adequately for the desired result. Existing patent rights as well as current laws and regulations should be respected at all times.

The information in this safety data sheet complements but does not substitute the data in the technical data sheet of this product.

Title for H, EUH and R indications mentioned in section 3

Abbreviations

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

WGK: Wassergefährdungsklasse (Water Hazard Class)

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CAS number: Chemical Abstract Service Registry number

EC: European Community

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