



Material Safety Data Sheet (MSDS) Hesi Phosphorus Plus

Date of issue: 01-07-2010
In accordance with: EC-Directive 91/155/EEC
Page: 1 of 4

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

Identification of the substance or preparation:

Catalogue No.: HE18 - HE22
Product name: Hesi Phosphorus Plus
Use of the substance/preparation: Liquid PK fertilizer for all plants cultivated on soil.

Identification of the company:

Hesi Plantenvoeding B.V.
Edisonstraat 11-17
6372 AK Landgraaf
The Netherlands
Tel. 0031 - (0) 45 569 04 20
Fax 0031 - (0) 45 569 04 21
E-mail: hesi@orange.nl
Website: www.hesi.nl

Responsible for the MSDS: Mrs. Siglinde Winkler, e-mail: hesiglinde@orange.nl

Emergency telephone No.:
Most of Europe: 112
UK also 999
USA and Canada: 911
Australia: 000

2. Composition and information on the ingredients.

No hazardous components.

Ingredients:

P ₂ O ₅ mineral acid-soluble	7,20%
K ₂ O mineral acid-soluble	5,00%

3. Hazards identification.

Hazard symbol:	None
Classification:	Not classified as hazardous.
Risks of the hazards:	Not applicable

4. First aid measures.

After inhalation:	Not usually a problem. Remove to fresh air, if necessary.
After skin contact:	Wash off with soap and water. Remove contaminated clothing and shoes.
After eye contact:	Rinse eyes out with plenty of water for at least 15 minutes.
After swallowing:	Treat symptomatically. Drink water to dilute.



Material Safety Data Sheet (MSDS) Hesi Phosphorus Plus

5. Fire-fighting measures.

Suitable extinguishing media:	Water, dry chemicals, carbon dioxide and foam.
Special risks:	None
Special protective equipment for fire-fighting:	Not necessary.
Other information:	Phosphorus Plus is not flammable.

6. Accidental release measures.

Person-related precautionary measures:	Not usually necessary.
Environmental-protection measures:	Do not allow to enter sewerage systems or groundwater.
Procedures for cleaning / absorption:	Absorb with liquid-binding material and forward for disposal. Dispose contaminated material as waste according to chapter 13. Clean affected area after complete removal of substance.

7. Handling and storage.

Handling:	Do not contaminate water, food or feed by storage or disposal. Keep out of reach of children. No further requirements.
Storage:	Store tightly closed in original container between 5°C and 50°C. Avoid freezing.

8. Exposure controls / Personal protection.

Limit value for exposure in working area:

EC	
Name:	Hesi Phosphorus Plus
Threshold Limit Value:	No hazardous material.

Personal protective equipment:

Respiratory protection:	Not required
Eye protection:	Not required
Hand protection:	Not required
Other protective equipment:	No special precautions necessary.
Industrial hygiene:	Wash hands after contact and before eating and drinking. Do not eat, drink or smoke, while working with substance. Do not empty into groundwater.

9. Physical and chemical properties.

Form:	Liquid
Colour:	Blue
Odour:	Odourless
pH Value:	4,4 - 4,6
Melting point:	> - 6 °C
Boiling point:	> 105 °C
Ignition temperature:	Not applicable
Flash point:	Not flammable
Explosion limits	lower: Not applicable
	upper: Not applicable
Vapour pressure:	Below 1
Vapour density:	Not applicable



Material Safety Data Sheet (MSDS) Hesi Phosphorus Plus

9. Physical and chemical properties. (Continued)

Density:	1,078 g/cm ³
Solubility in water:	100%
Viscosity dynamic:	Not applicable

10. Stability and reactivity.

Stability under normal conditions:	Stable
Conditions to be avoided:	Heating, freezing and recasting (keep in original container).
Substances to be avoided:	None
Hazardous reactions with:	None
Hazardous decomposition products:	None
Hazardous polymerisation:	Will not occur.
Further information:	None

11. Toxicological information.

Acute toxicity:	Not toxic
Subacute to chronic toxicity:	Not toxic
<i>Further toxicological information:</i>	
After inhalation:	Not usually a problem.
After skin contact:	Not usually a problem.
After eye contact:	Not usually a problem.
After swallowing:	Potential mild diarrhea if taken internally in concentrated form.
Further data:	Phosphorus Plus is not classified as hazardous.

12. Ecological information.

Biological degradation:	No data available on biodegradation.
Ecotoxic effects:	Can cause eutrophication in surface water. This may cause a severe reduction in water quality, enhanced growth of choking aquatic vegetation, a lack of oxygen in the water and a decrease in biodiversity. May be hazardous for drinking water supplies.
Fish toxicity:	Can cause a lack of oxygen in water which can eventually cause fish mortality. No data on direct toxicity to fish.
Further ecologic data:	Do not allow material to be released to the environment without proper governmental permits. In large amounts substance can cause eutrophication.

13. Disposal considerations.

Product:	Substance must be disposed of in compliance with the respective national regulations.
Packaging:	Packaging must be disposed of in compliance with country-specific regulations or must be passed to a packaging return system. Original containers are made of PE.



Material Safety Data Sheet (MSDS)
Hesi Phosphorus Plus

14. Transport information.

Hesi Phosphorus Plus is not classified as a hazardous substance.
Therefore no special transport regulations are applicable.
Any relevant local regulations concerning transport should be observed.

The transport regulations are cited according to international regulations and in the form applicable in the Netherlands. Possible national deviations in other countries are not considered.

15. Regulatory information.

Labelling according to EC Directives:

Symbol:	None, not hazardous.
R-phrases:	None
S-phrases:	S2 Keep out of reach of children.
	S20 / 21 When using do not eat, drink or smoke.

16. Other information.

The complete text of the mentioned R-sentences in section 2.
None

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

In accordance with EC Directive 91/155/EEC.