



HESI plantenvoeding

Tel 0031 45 5690420

Edisonstraat 11-17

Fax +31 45 5690421

6372 AK Landgraaf

e-mail: Hesi@orange.nl

Nederland

web-site www.Hesi.nl

MATERIAL SAFETY DATA SHEETS Hesi TNT Complex

1. Identity / Description

product name:

TNT - complex

1.1. identity:

liquid NPK fertilizer with micronutrients

1.2. manufacturer:

Hesi plantenvoeding BV

1.3. contact information:

Hesi plantenvoeding, Tel 0031 45 5690420,

Edisonstraat 11-17

6372 AK Landgraaf, Nederland

2. Hazardous ingredients identity information

2.1. Hazardous components: None, not classified in any hazardous substance class:

2.2. ingredients

macro nutrients

total nitrogen % **2,80**

available phosphoric oxide (P_2O_5) % **2,20**

soluble potash (K_2O) % **3,10**

calcium CaO % **0,01**

magnesium MgO % **0,20**

micronutrients

iron (Fe) * % actual **0,0040**

zinc (Zn) * % actual **0,0010**

manganese (Mn) * % actual **0,0010**

copper (Cu) * % actual **0,0005**

EDTA (chelating agent)% **0,0500**

boron (B) % actual **0,0010**

molybdenum (Mo) actual **0,0002**

* EDTA chelated

others

in smaller amounts: Vitamins (B1, B2, B3),

amino acids, inositol (sugar).



HESI plantenvoeding

Edisonstraat 11-17
6372 AK Landgraaf
Nederland

Tel 0031 45 5690420

Fax +31 45 5690421

e-mail: Hesi@orange.nl

web-site www.Hesi.nl

3. Physical / Chemical Characteristics

3.1. boiling point:	>105 degrees C
3.2. specific gravity:	1,044 g/cm ³
3.3. vapour pressure:	below 1
3.4. melting point:	> - 6 degrees C
3.5. vapor density (air=1)	N/A
3.6. solubility in water:	100%
3.7. viscosity:	N/A
3.8. form:	liquid
3.9. appearance:	yellow
3.10. odor:	smells slightly like yeast (vitamin B1)
3.11. pH (concentrate)	4,4 - 4,6

4. Fire and explosion hazard data#

4.1. flash point:	not flammable
4.5. extinguishable media:	water, dry chemical, carbon dioxide and foam
4.6. special fire fighting procedures:	none
4.7. unusual fire & explosion hazards	none
4.8. ignition temperature:	none
4.9. hazardous decomposition:	none
4.10 hazardous reactions:	none

5. Reactivity data

5.1. stability:	stable in normal use and storage Store in original container
5.2. incompatibility:	N/N
5.3. hazardous decomposition:	N/N
5.4. hazardous reactions:	N/N
5.5 hazardous polymerisation	will not occur

6. Health Hazard data

6.1. route of entry (inhalation)	not usually a problem. Remove to fresh air, if necessary
6.2. route of entry (skin)	flush with water (eyes 15 minutes) (skin: wash with water and soap)
6.3. route of entry (digestion)	treat symptomatically, drink water to dilute
6.4. health hazards (acute & chronic)	no hazardous material
6.5. carcinogenicity:	N/A
6.6. signs and symptoms of exposure:	none
6.7. medical condition generally aggravated by exposure:	potential for mild diarrhea if taken internally in concentrate form



HESI plantenvoeding

Edisonstraat 11-17
6372 AK Landgraaf
Nederland

MSDS Hesi TNT Complex Page 3 of 3

Tel 0031 45 5690420

Fax +31 45 5690421

e-mail: Hesi@orange.nl

web-site www.Hesi.nl

6.8. emergency first aid procedures:

eye contact:

skin contact

inhalation

ingestion

flush with water for 15 minutes

**wash affected area with soap and water,
change contaminated clothing**

**not usually a problem. Remove to fresh air,
if necessary**

treat symptomatically

7. PRECAUTION FOR SAFE HANDLING; STORAGE; AND USE OF PRODUCT

7.1. technical protection measures:

no special precaution

7.2. personal protection including breathing,
eye and hands:

not usually necessary

7.3. recommended storage conditions:

tightly closed. store between 5 and

50 degrees celcius. Avoid freezing

7.4. precaution on handling:

do not contaminate water, food or feed

by storage or disposal

7.5. spill or leak procedures:

sweep up and place in container,

wash down area with water

7.5. waste disposal

place in container

8. CONTROL MEASURES:

8.1. respiratory protection:

not required

8.2. ventilation:

not required

8.3. protective gloves:

not required

8.4. eye protection:

not required

8.5. other protective or handling equipment:

not required

8.6. work/ hygienic practices:

**wash hands after contact and before eating
and drinking.**

**do not eat, drink or smoke, while working
with substance**

Abbreviations:

N/A: Not applicable

N/N: None Known

The information contained herein is based on the present state of knowledge.

It characterizes the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properties of the product.

21.01.2009