

Print Date 15.01.2007

Floranid Permanent

Version 3 Revision Date 15.01.2007

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

Product information	
Trade name	: Floranid Permanent
Use of the Substance/Preparation	: fertiliser
Company	: COMPO GmbH & Co. KG Gildenstraße 38 D-48157 Münster

Telephone	: +49-0251/3277-0
Telefax	: +49-0251/326225
Emergency telephone	: BASF works fire brigade Ludwigshafen
number	Telephone: 0621-60-43333

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

NPK - fertilizer contains:N,N'-(2-Methylpropyliden)-bis-urea, ammonium nitrate, potasium sulfate, ammonium salt, phosphate, magnesium salt, calcium salt, trace element combination.

Hazardous components

Chemical Name	CAS-No.	EINECS-No.	Index-No.	Symbol(s)	R-	Concentration
					phrase(s)	[%]
Ammonium Nitrate	6484-52-2	229-347-8				>= 10,00 - <=
						45,00

For the full text of the R phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

No particular dangers occur if the regulation/notes for storage and handling are observed.

4. FIRST AID MEASURES

Inhalation	 If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention. On inhalation of decomposition products: Inhale corticosteroid dose aerosol (e.g. dexamethazone). Keep patient calm, remove to fresh air, seek medical attention.
Skin contact	: Wash thoroughly with soap and water.



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Eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	:	Rinse mouth immediately and then drink plenty of water, seek medical attention.
Notes to physician		
Risks	:	Inhalation of decomposition products can lead to lung oedema. Symptoms can appear later. Danger of methaemoglobin formation.
Treatment	:	Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse methaemoglobinanaemia. Pulmonary odema prophylaxis.
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media	:	water
Extinguishing media which must not be used for safety reasons	:	foam dry chemical carbon dioxide (CO2) sand
Specific hazards during fire fighting	:	Can decompose at above 100 °C. Thermal decomposition products: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia Isobutyraldehyd
Special protective	:	Wear a self-contained breathing apparatus.
equipment for fire-fighters Further information		Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
6. ACCIDENTAL RELEASE MEA	SU	IRES
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Retain and dispose of contaminated wash water.
Methods for cleaning up	:	Use mechanical handling equipment.
7. HANDLING AND STORAGE		
Handling		
Advice on protection	:	The product is incombustible. It can lower the ignition
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against fire and explosion	temperature of combustible substances. Keep away from sources of ignition - No smoking. Keep away from combustible material. Avoid influence of heat. Risk of explosion if heated under confinement.
Storage	
Requirements for storage areas and containers	When stored loose do not mix with other fertilizers. Store well away from other substances. Keep away from direct sunlight. Protect against heat. Avoid contamination. Protect against humidity (product is hygroscopic and tends to cake or disintegrate)
German storage class	5.1C
8. EXPOSURE CONTROLS / PER	ONAL PROTECTION
Personal protective equipme	nt
Respiratory protection	Breathing apparatus only if aerosol or dust is formed.
Hygiene measures	At the end of the shift the skin should be cleaned and skin-care agents applied.
9. PHYSICAL AND CHEMICAL PR	DPERTIES
Appearance	
Form	: granular
Colour	: various, depending on the colorant
Odour	: almost odourless
Safety data	
рН	: approx.6,2 at 100 g/l (20 °C)
Bulk density	: approx.910 kg/m ³ Method: EN 1236
Water solubility	: mainly soluble



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Materials to avoid	 Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.
Hazardous decomposition products	 Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia Isobutyraldehyd
Thermal decomposition	 approx.100 °C To avoid thermal decomposition, do not overheat. Thermal decomposition above the indicated temperature is possible. The product is not capable of self-sustaining progressive thermal decomposition (UN S1).
Hazardous reactions	: Evolution of ammonia under influence of alkalies.
TOXICOLOGICAL INFORM	ATION
Acute oral toxicity	: LD50 rat Dose: > 2.000 mg/kg
Skin irritation	: rabbit Result: non-irritant Method: OECD Test Guideline 404
Eye irritation	: rabbit Result: non-irritant Method: OECD Test Guideline 405
Further information	: Danger of methaemoglobin formation. The product was not tested. The statement was derived from products of similar structure and composition.
ECOLOGICAL INFORMATIO)N
Elimination information (p	ersistence and degradability)
Physico-chemical removability	 DOC reduction approx. 85 % Method: OECD 301E/92/69/EWG, C.4-B Remarks: May be eliminated in purification plants
Ecotoxicity effects	
Toxicity to fish	: LC50 Species: Rainbow trout

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		Dose: > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
aquatic invertebrates	:	EC50 Species: Daphnia magna Dose: > 100 mg/l Exposure time: 48 h Method: Directive 84/449/EEC, C.2
Toxicity to algae	:	EC50 Species: green algae Dose: > 100 mg/l Exposure time: 72 h
Toxicity to bacteria	:	activated sludge EC0 Species: Pseudomonas putida Dose: approx. 640 mg/l Exposure time: 16 h Method: no data available
Additional ecological information		Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. There is a high probability that the product is acute not harmful to aquatic organisms. information on: Isodur
DISPOSAL CONSIDERATIO	NS	
Product	:	Test for use in agriculture. Contact manufacturer.
Contaminated packaging		Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.
Waste key for the unused product		02 01 09: Wastes of chemicals for the agriculture excepted of those, which are listed under 02 01 08
. TRANSPORT INFORMATIO	N	
Further Information		
Not dangerous goods in the	mear	ning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR



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15. REGULATORY INFORMATION

Labelling according to EC Directives

The product does not require a hazard warning label in accordance with EC Directives.

National legislation

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Further information	:	German "Hazardous Substances" legislation (Gefahrstoffverordnung) appendix III, No. 6 (Ammonium Nitrate group C) Directive 76/116/EEC on the approximation of the laws relating to fertilizers. The authority permits and storage regulations must be observed.
Water contaminating class (Germany)	:	WGK 1 slightly water endangering

16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.