


MATERIAL SAFETY DATA SHEET	Version 5 - EU	
	Date: 12/02/2008	
Supersedes: 28/06/2006		
Date of printing: 06/03/2008		
LENTAGRAN[®] 45 WP	Page: 1	

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

Identification of the preparation

Product name: **Lentagran[®] 45 WP**
Active ingredient: **Pyridate**
Formulation type: **Wettable powder (WP)**

Recommended use Herbicide

Company identification **Belchim Crop Protection NV/SA**
Neringstraat 15
1840 Londerzeel
Belgium
Tel.: 0032 (0)52 30 09 06
Fax: 0032 (0)52 30 11 35

24 - hour emergency number 0032 (0)14 58 45 45

2. Hazard identification*

Symbols of danger: Irritant
Dangerous for the environment

Adverse human health effects: May cause sensitization by skin contact.

Environmental effects: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on ingredients

Hazardous ingredients	Concentration (w/w)	n° CAS / n° EINECS / Index EC	Symbols	R-phrases ⁽¹⁾
Pyridate	45%	55512-33-9/ 259-686-7/ 607-232-00-7	Xi, N	38-43-50/53
Sodium-N-methyl-N-oleoyl-taurate	< 3%	137-20-2/ 205-285-7/ -	Xi	41
Sodiumdiisobutyl-naphthalenesulphonate	< 3%	27213-90-7/ 248-326-4/-	Xn	20/22-36/38

⁽¹⁾ For R-phrases in full: see heading 16

4. First aid measures

Inhalation: Move the affected person to the fresh air, protect him from hypothermia and let him rest. If breathing problems develop, seek medical advice immediately (show the label where possible).


Skin contact: Remove contaminated clothing and thoroughly wash the affected part of the body with soap and water, rinse afterwards with warm water. If irritation persists, seek medical advice immediately (show the label where possible).

Eye contact: Rinse immediate with plenty of water during at least 15 minutes. if irritation persists, seek medical advice immediately (show the label where possible).

Ingestion: Repeatedly administer medical charcoal in a large quantity of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. if you feel unwell, seek medical advice immediately (show the label where possible).

Medical Instructions: No specific antidote is known.
Apply symptomatic therapy.

For additional information, please consult the **24 - hour emergency number: 0032 (0)14 58 45 45**

MATERIAL SAFETY DATA SHEET	Version 5 - EU	
	Date: 12/02/2008	
Supersedes: 28/06/2006		
Date of printing: 06/03/2008		
LENTAGRAN[®] 45 WP	Page: 2	

5. Fire fighting measures

Combustibility:	Combustible.
Suitable extinguishing media:	Dry chemical extinguisher, foam, carbon dioxide or water spray.
Not suitable extinguishing media:	Do not use direct jet of water.
Special Hazards during Fire Fighting:	Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably. Combustion products are toxic and or irritant.
Protective Equipment for Fire Fighting:	Use self contained breathing apparatus. Wear protective equipment.

6. Accidental release measures

Environmental Protection:	Do not contaminate waters and sewers.
Disposal:	Collect material in specially marked, tightly closing containers and dispose of in an incinerator approved for chemicals. This material and its container must be disposed of in a safe way, at an authorized site.

7. Handling and storage

Handling:	A good ventilation of the work station is required. Do not eat, drink or smoke during work. Do not breathe gas, fumes, vapour or spray. Avoid contact with skin and eyes.
Storage:	Protect from light and humidity. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep only in the original container in a cool, well-ventilated place. Storage Temperatures: 5-30 °C

8. Exposure controls/ Personal protection

Personal protective equipment	
- Respiratory protection:	In case of heavy exposure wear dust mask.
- Hand protection:	Chemical resistant gloves.
- Skin and body protection:	Heavy duty cotton or synthetic fabric working clothes (e.g. overalls). Heavy duty shoes or boots.
- Eye protection:	Goggles or face-shield.
Hygiene measures:	Do not breathe gas, fumes, vapour or spray. Avoid contact with skin and eyes. Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.


9. Physical and chemical properties*

General information:

Appearance:	Solid, Powder
Colour:	White to off white
Odour:	Characteristic odour

Important health, safety and environmental information

pH value :	4.67 (1%; in water) [CIPAC MT 75.3]
Auto-flammability :	Does not represent a self-ignition up to 220 °C
Tap density :	0,36 g/cm ³ [CIPAC MT 169, MT 186]
Water solubility :	Soluble (1 %; ca 30 °C) [CIPAC MT 184, MT 18]
Explosive properties:	No explosive properties
Oxidising properties:	No oxidising properties

MATERIAL SAFETY DATA SHEET	Version 5 - EU	
	Date: 12/02/2008	
Supersedes: 28/06/2006		
Date of printing: 06/03/2008		
LENTAGRAN[®] 45 WP	Page: 3	

10. Stability and reactivity

Hazardous decomposition products: None under standard conditions.

11. Toxicological information

Information below is related to the preparation

Acute toxicity

Acute oral: LD50 (rat): 2330 mg/kg [OECD 401]
 Acute dermal: LD50 (rat): > 4000 mg/kg [OECD 402]
 Acute inhalation : LC50 (rat): > 2.14 mg/l [OECD 403]

Chronic toxicity

Skin irritation (rabbit): Non irritant [OECD 404]
 Eye irritation (rabbit): Moderately irritant [OECD 405]
 Sensitization (guinea pig): Sensitizing [OECD 406]

12. Ecological information*

Information below is related to the preparation

Ecotoxicity

-Aquatic organisms:
 LC50 (*Salmo gairdneri* /96h): 118 mg/l
 LC50 (*Cyprinus carpio*/96h): 187.1 mg/l [OECD 203]
 EC50 (*Daphnia magna*/48h): 2.13 mg/l [OECD test medium]
 EC50 (*Scenedesmus subspicatus*/72h): 4.0 mg/l [OECD 201]

13. Disposal considerations

Product Disposal: Collect material in specially marked, tightly closing containers.
 Dispose of in an incinerator approved for chemicals.
 Clean the floor and all contaminated objects with water.
 This material and its container must be disposed of in a safe way, at an authorized site.
 Please follow the local/ national regulations for product disposal.

14. Transport information


International regulations

Land transportation (RID/ADR)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (pyridate)
 UN number : 3077
 Hazard identification number : 90
 Labelling : 9
 Class : 9
 Classification code : M7
 Packaging group : III

Sea transportation (IMO/IMDG)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (pyridate)
 UN number : 3077
 Class : 9
 Packaging group : III
 Transport/ special classification: Marine pollutant

MATERIAL SAFETY DATA SHEET	Version 5 - EU	
	Date: 12/02/2008	
Supersedes: 28/06/2006		
Date of printing: 06/03/2008		
LENTAGRAN[®] 45 WP	Page: 4	

Air transport (ICAO / IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (pyridate)
 UN number : 3077
 Class : 9
 Packaging group : III

15. Regulatory information

Classification and labelling based on the EC-directive of dangerous substances 1999/45/EC and his amendments

Symbols of danger : Xi - Irritant
 N - Dangerous for the environment

R-phrases : R43 - May cause sensitization by skin contact
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : S2 - Keep out of reach of children
 S13 - Keep away from food, drink and animal feeding stuffs.
 S20/21 - Do not eat, drink or smoke during work.
 S24/25 - Avoid contact with skin and eyes.
 S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
 S60 - This material and its container must be disposed of as hazardous waste.
 S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other information

Full text of any R-phrases referred to under heading 3: R20/22 - Harmful by inhalation and if swallowed.
 R36/38 - Irritating to eyes and skin.
 R38 - Irritating to skin.
 R41 - Risk of serious damage to eyes.
 R43 - May cause sensitization by skin contact.
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Source of information : - Files Belchim Crop Protection NV
 - ECB Database
 - Commission Directive 2001/59/EC of 6 August 2001 adapting to technical progress for the 28th time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

Registered trademarks : Lentagran is a registered trademark of Belchim Crop Protection NV

Update : This sheet was updated (refer to the date at the top of this page).
 Subheadings and text which have been modified since the previous version are followed with an asterisk (*).

This sheet completes the technical sheets but it does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The mandatory regulations mentioned are only intended to help the user to fulfil his obligations regarding the use of hazardous products. This listing must not be considered exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

This information sheet is in line with directive 67/548/EEC, 91/155/EEC, 93/112/EEC, 1999/45/EC, 2001/58/EC and amendments.