


MATERIAL SAFETY DATA SHEET	Version 9 UK+IR	
	Date: 28/01/2014	
Replace : 03/10/2012		
Date of printing: 07/02/2014		
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SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance/mixture

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

1.2 Recommended uses

Herbicide

1.3 Company identification

Belchim Crop Protection NV/SA
Technologielaan 7
B-1840 Londerzeel
Tel. +32 (0)52 30 09 06
Fax +32 (0)52 30 11 35
e-mail: info@belchim.com

1.4 24 h emergency number +32 (0)14 58 45 45

SECTION 2: Hazard identification (*)

2.1 Classification of the substance or mixture

2.1.1 DSD/DPD

Indication of danger Xi, Irritant
N, Dangerous for the environment
Adverse human health effects R43: May cause sensitisation by skin contact.
Environmental effects R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.1.2 CLP:

Symbol GHS 07, GHS 09
Indication of Danger Warning
Adverse human health effects Skin Sens. 1 : May cause allergic skin reaction
Environmental effects Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects

2.2 Label elements

CLP

Symbol



Indication of Danger


Warning

H-statements

H317: May cause an allergic skin reaction
H410: Very toxic to the aquatic life with long lasting effects

P-statements:

P272: Contaminated work clothing should not be allowed out of the workplace
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing
P302+352: IF ON SKIN: Wash with soap and water
P333+313: If skin irritation or a rash occurs: Get medical advice/attention
P391: Collect spillage
P501: Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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* Sp-phrases SP1: Do not contaminate water with the product or its container; Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

* EUH-phrases EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards: Combustible

SECTION 3 : Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients	Concentration (w/w)	n° CAS / n° EINECS / Index EC	Classification according to DSD/DPD (symbols / R-phrases)⁽¹⁾	Classification according to CLP⁽²⁾
Pyridate	45%	55512-33-9/ 259-686-7/ -	Xi, N R38-43-50/53	Skin Irrit 2: H315 Skin Sens 1: H317 Aquatic Acute 1:H400 Aquatic Chronic 1: H410
Sodium Methyl-Oleoyl-Taurate	< 3%	137-20-2/ 205-285-7/ -	Xi R41	Eye Irrit 2: H319
Sodium Diisobutyl-Naphtalenesulphonate	< 3%	27213-90-7/ 248-326-4/-	Xn R20/22,R36/38,R52/53	Acute Tox 4: H302 Acute Tox 4: H332 Skin Irrit 2: H315 Eye Irrit 2: H319 Aquatic Chronic 3: H412
(+)-Bornan-2-on	≤ 2 %	464-49-3/207-355-2	F,Xi R11, R36/37/38	Flam Sol 2: H228 Skin Irrit 2: H315 Eye Irrit 2 : H319 STOT Single 3 : H335

⁽¹⁾ For R-phrases in full: see heading 2 and 16

⁽²⁾ For H-phrases in full: see heading 2 and 16

SECTION 4: First aid measures

4.1 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).

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).


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).

Protection of first aiders

4.2 Description of effects and symptoms

On the substance pyridate: There are no specific symptomatology expected for Pyridate poisoning.

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4.3 Indication of any immediate medical treatment or other

No specific antidote is known. Apply symptomatic therapy.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable
Carbon dioxide (CO₂)
Foam
Dry chemical extinguisher
Water spray

Unsuitable

Do not use direct jet of water.

5.2 Special hazards

This product is combustible at elevated temperatures.

Combustion products are toxic and/or irritant

Hazardous combustion products: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur dioxide, hydrogen chloride.

5.3. Advice for fire-fighters

Specific fire-fighting methods:

Isolate fire area. Evacuate downwind.

Contain the extinguishing fluids by bunding (the product is hazardous for the environment) . Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Do not attempt to fight the fire without suitable protective equipment. Do not breathe fumes.

Protection of fire-fighters:

Use self-contained breathing apparatus.

Wear complete protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment (P.P.E.). For further information, refer to point 8 "*Exposure control/individual protection*".

6.2 Environmental precautions

Do not allow product to spread into the environment.

6.3 Methods for cleaning up

Contain the spilled material by bunding (product is hazardous for the environment). Collect product and dispose of in an incinerator approved for chemicals. Dampen solid material carefully to prevent it being blown away. Collect material in specially marked, tightly closed containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative; Do not contaminate waters and sewers.

6.4 Reference to other sections

See section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling


Precautions

Read the label before use.

Use only in presence of adequate ventilation. Ensure that there are efficient emergency eyewash facilities and showers in proximity. In addition to the measures usually taken when working with chemicals, such as dustproof filling and measuring equipment (including dust extraction), further personal protection measures may have to be implemented to avoid possible contact with the product.

Hygiene measures

Adopt standard personal hygiene measures. Do not drink, eat or smoke while working. Do not keep food in working area. Wash hands and exposed parts before eating, drinking or smoking and after work. Avoid all contact with the product to skin, eyes and clothing. Avoid inhaling of dusts.

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7.2 Storage and packaging conditions

Storage conditions: Store out of reach of children. Store separately from food, drinks, animal foodstuffs and stimulants. Do not store near pharmaceuticals or cosmetics. Store the product in a tightly closed and dry container. Store in a cool, well-ventilated area, in the original containers. Protect from excessive heat and cold, away from direct sunlight. Store in accordance with national or local regulations.

Packaging materials: Original packaging.

7.3 Specific end uses

Herbicide

SECTION 8: Exposure controls/ Personal protection

8.1 Control parameters:

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Individual protection measures:

- Hygiene
When using do not eat, drink or smoke. Wash hands and face with water and soap before taking a break and after work.
Change working cloths each day. Observe normal industrial hygiene standards. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution
- Eye/Face protection
Ensure that there are efficient emergency eyewash facilities and showers in proximity.
- Skin/Hand protection
Wear long-sleeved protective work clothing. Heavy duty cotton or synthetic fabric working clothes (e.g. overalls). Rubber apron. Heavy duty shoes or boots.
Chemical resistant gloves [EN 374 "Protective gloves against chemicals and micro-organisms"].
- Respiratory protection
In case of presence of dusts or insufficient ventilation, use dust masks to avoid dust inhalation [EN 149 "Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking" - Protection Class: FFP2(S)].

Environmental exposure controls


SECTION 9: Physical and chemical properties

9.1 Basic physical and chemical information

Appearance: Solid, Powder
 Colour: White to off white
 Odour: Characteristic odour
 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/cm³ [CIPAC MT 169, MT 186]
 Explosive properties: No explosive properties
 Oxidising properties: No oxidising properties
9.2 Other Information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity Not known
10.2 Chemical stability Yes
10.3 Possibility of hazardous reactions Not known
10.4 Conditions to avoid Not known
10.5 Incompatible materials Not known
10.6. Hazardous decomposition products Carbon dioxide, carbon monoxide, nitrogen oxides, sulphur dioxide, hydrogen chloride.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

General	May cause sensitisation by skin contact.
Acute Oral Toxicity LD ₅₀	LD ₅₀ (rat): 2330 mg/kg [OECD 401]
Acute Dermal Toxicity LD ₅₀	LD ₅₀ (rat): > 4000 mg/kg [OECD 402]
Acute Inhalation Toxicity LC ₅₀	LC ₅₀ (rat): > 2.14 mg/l [OECD 403]
Skin Irritation	Not irritant (rabbit)
Eye Irritation	Not irritant (rabbit)
Skin sensitization	Sensitizing (Guinea pig maximization test)


SECTION 12. Ecological information

12.1. Toxicity :	Product is dangerous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects. LC ₅₀ (<i>Salmo gairdneri</i> /96h): 118 mg/l LC ₅₀ (<i>Cyprinus carpio</i> /96h): 187.1 mg/l [OECD 203] EC ₅₀ (<i>Daphnia magna</i> /48h): 2.13 mg/l [OECD test medium] EC ₅₀ (<i>Scenedesmus subspicatus</i> /72h): 4.59 mg/l [OECD 201]
12.2. Persistence and degradability :	Not known
12.3. Bioaccumulative potential :	No (active substance pyridate BCF=116,3 for whole fish edible tissues)
12.4. Mobility in soil :	Not known
12.5. Results of PBT and vPvB assessment:	Not known
12.6. Other adverse effects :	Not known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste-disposal procedures	Surplus and wastes must be disposed of in compliance with the country specific regulations, in a site authorised for collection and disposal of waste. Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closed containers. Treat contaminated surfaces with water. Collect washings in containers to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the representative and dispose of in an incinerator approved for chemicals.
Waste of residues	Carry out the separation of waste. Evacuate as dangerous chemical waste, in accordance with the national or local regulation.
Contaminated packaging	Do not reuse empty containers. Used containers must be disposed of in compliance with the current local/national regulations. Dispose of empty containers in an incinerator approved for chemicals. Damaged containers: place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

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SECTION 14 : Transport information

International regulations

Land transport (RID/ADR)

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

Marine transport (IMO/IMDG)

Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (pyridate)
UN number	3077
Hazard identification number	9
Packaging group	III
Marine pollutant	Yes

Air transport (ICAO/IATA)

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

SECTION 15: Regulatory information

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

No data available

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

R-phrases:


R11: Highly flammable
R20/22: Harmful by inhalation and if swallowed
R36/38: Irritating to eyes and skin
R36/37/38: Irritating to eyes, respiratory system and skin
R38: Irritating to skin
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

H-phrases:

H228: Flammable solid
H302: Harmful if swallowed
H315: Causes skin irritation
H319 :Causes serious eye irritation
H332 Harmful if inhaled
H335 :May cause respiratory irritation
H400 :Very toxic to aquatic life
H412 Harmful to aquatic life with long lasting effects

Classes:

Acute Tox 4: Acute toxicity category 4
Aquatic Acute 1 : Acute toxicity category 1
Aquatic Chronic 1 : Chronic toxicity category 1
Aquatic Chronic 3 : Chronic toxicity category 3
Eye Irrit 2 : Eye irritation category 2
Flam Sol 2: Flammable Solid category 2

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Skin Irrit. 2: Skin irritation category 2
Skin Sens.1 : Skin sensitisation category 1
STOT Single 3 : STOT single exposure category 3

Sources of key data used:

Dossier Belchim Crop Protection NV
SDS-sheets of ingredients
Database ESIS

Trade name:

Lentagran ® WP is a registered trade name of Belchim Crop Protection NV/SA

Further information:

This SDS was updated (see date given at the top of the page)
Subheadings and text which have been modified since the previous version are indicated 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 safety data sheet is compliant with EC Regulation 1907/2006 (REACH) as adapted by 453/2010, Directive 67/548/EEC, 1999/45/EC (DSD/DPD) and EC Regulation 1272/2008 (CLP) and EC Regulation 1107/2009 (PPP).

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