


SAFETY DATA SHEET	Version 6 – EU+UK	
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier**
Trade name **LINGO[®]**
Active ingredient Linuron and Clomazone
Formulation type ZC (Mixture of capsule suspension (CS) and suspension concentrate (SC))
- 1.2 Recommended uses**
Herbicide
- 1.3 Supplier of the SDS**
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 Emergency telephone number** Anti-poison Center (Brussels) : +32 (0)70 245 245
+24 Emergency telephone number: +32 (0)14 58 45 45

SECTION 2: Hazards identification (*)

2.1 Classification

2.1.1 DSD/DPD

Indication of danger

T, Toxic

Adverse human health effects

N, Dangerous for the environment

R40: Limited evidence of a carcinogenic effect.

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R61: May cause harm to unborn child.

R62: Possible risk of impaired fertility.

Environmental effects

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.1.2 CLP:

Symbol

GHS 08, GHS 09

Indication of Danger

Danger

Adverse human health effects

Carc 2: Suspected of causing cancer

Repro 1B : May damage the unborn child. Suspected of damaging fertility

STOT RE 2: May cause damage to organs through prolonged or repeated exposure

Environmental effects

Aquatic Acute 1: Very toxic to aquatic life (M=1)

Aquatic Chronic 1 : Very toxic to aquatic life with long lasting effects

2.2 Label elements

CLP

Symbol



Indication of Danger

Danger


H-statements

H351: Suspected of causing cancer

H360 Df: May damage the unborn child. Suspected of damaging fertility

H373: May cause damage to organs through prolonged or repeated exposure

H410: Very toxic to aquatic life with long lasting effects.

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P-statements
P260: Do not breathe spray.
P273: Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+313: If exposed or concerned: 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.

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

2.3 Other hazards
No information available

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⁾
Linuron	20% < c ≤ 25%	330-55-2 / 206-356-5 / 006-021-00-1	T, N R22-40-48/22-50/53-61-62	Acute Tox 4: H302 Carc 2: H351 Repro 1B : H360 Df STOT RE 2: H373 Aquatic Acute 1: H400 Aquatic Chronic 1 : H410
Clomazone	<10%	81777-89-1/-/-	Xn,N R20/22-50/53	Acute Tox 4: H302 Acute Tox 4: H332 Aquatic Acute 1: H400 Aquatic Chronic 1 : H410
Sodium Nitrate	< 10%	7631-99-4/231-554-3/-	O,Xn R8-22-36/37/38	Acute Tox 4: H302 Eye Irrit 2:H319 Ox Liq 2: H272 Skin Irrit 2 : H315 STOT SE3 : H335
Calcium chloride	< 10%	10043-52-4/233-140-8/017-013-00-2	Xi R36	Eye Irrit 2:H319
Lignosulfonic acid,sodium salt,sulfomethylated	1%<c<3%	7732-18-5/-/-	Xi R36	Eye Irrit 2:H319

⁽¹⁾ For R-phrases in full: see heading 2,15 and 16


⁽²⁾ For H-statements in full: see heading 2,15 and 16

SECTION 4: First aid measures

4.1 First-aid measures

Inhalation:
Ingestion:

In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If you feel unwell seek medical advice (show the label where possible).
Assure fresh air breathing. Allow the victim to rest. Immediately get medical attention.
If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. If the person is fully conscious, try to induce vomiting.
Consult a doctor.

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Skin contact : Remove contaminated clothing and shoes. Wash skin with much water and soap. Seek medical advice.

Eye contact : Rinse immediately with plenty of water. With the eyelid wide open for at least 15 minutes. Remove contact lenses if present. Immediately get medical attention.

Protection of first aiders Avoid exposure. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear respiratory equipment.

4.2 Description of effects and symptoms

No information available

4.3 Indication of any immediate medical treatment or other

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 Foam. Dry chemical. Carbon dioxide.
 Unsuitable Water (Product is dangerous for the environment – do not dilute it)

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Toxic fumes are released.
 See also Heading 10 (Stability and reactivity).

5.3. Advice for firefighters

Specific fire-fighting methods Isolate fire area. Evacuate downwind. Do not dispose of fire-fighting water in the environment. Do not attempt to fight the fire without suitable protective equipment. Do not breathe fumes.

Protection of fire-fighters Wear suitable protective clothing. Self-contained breathing apparatus with full face shield. Fight fire from safe distance and protected location.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Prevent formation of clouds of dust. In the event of major spillage evacuate room. Contact an expert immediately. No smoking. Wear suitable protective clothing, gloves, eye/face protection and respiratory protection. Keep public away from danger area.

6.2 Environmental precautions

Prevent dispersion. Do not allow product to spread into the environment. Recover the product with absorbent material. Absorb spillage with earth or sand. Dispose of contaminated material at an authorized site.

6.3 Methods for cleaning up

Do not allow product to spread into the environment. Recover the product with absorbent material. Absorb spillage with earth or sand. Dispose of contaminated material at an authorized site.

6.4 Reference to other sections

See section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions Ensure good ventilation of the working station. Prevent formation of clouds of dust; Do not breathe dust.

Obtain special instructions before use.


Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required. Wear protective clothing, protective gloves and eye and face protection.

Hygiene measures

Do not eat, drink or smoke in the workplace

Wash hands thoroughly after handling

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7.2 Storage and packaging conditions

Storage conditions: According to national or local legislation
Store locked up.
Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.
Keep in fireproof place. Store in a dry, cool, well-ventilated area. Keep away from:
moisture, heat sources, sources of ignition.

Packaging materials: Use original packaging material.

7.3 Specific end uses Herbicide for agricultural use

SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation

Individual protection measures:

- Hygiene
When using, do not eat, drink or smoke
Wash hands and face with soap and water before the break. Shower after work.
Wear clean working clothes every day
- Eye/Face protection
Safety spectacles with side shields, Face shield
- Skin/Hand protection
Protective impermeable clothing (Hypalon, Tyvek, Saranex, PVC,...).
Nitrile-rubber protective gloves.
- Respiratory protection
Filtering respiratory protective device.

Environmental exposure controls See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Odour: Slight aromatic
Colour: Light brown
pH value of the mixture: 7.82 (1 % aqueous dilution)
Solubility in water: Dispersible
Flash point: Not applicable (non-flammable liquid)
Specific density: 1.2228 g/ml (20°C)
Explosive properties: No data available
Oxidising properties: No data available

9.2. Other information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal circumstances

10.2 Chemical stability No data available

10.3 Possibility of hazardous reactions


Thermal decomposition generates dangerous vapours

10.4 Conditions to avoid Elevated temperatures.

10.5 Incompatible materials No

10.6 Hazardous decomposition products

A fire can release for instance: carbon monoxide (CO), chlorine products, chlorine, nitrogen oxides, phosgene (COCl₂), hydrocarbons.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

On the substance: linuron

Reproduction class EU	Cat. 3 (R62) - Cat. 2 (R61): H360Df
Carcinogenicity class EU	Cat. 3 (R40): H351
Organ toxicity	R48/22: H373

On mixture

General	Suspected of causing cancer May damage the unborn child. Suspected of damaging fertility May cause damage to organs through prolonged or repeated exposure
Acute Oral Toxicity	LD ₅₀ > 2000-5000 mg/kg body weight [OECD 423]
Acute Dermal Toxicity	LD ₅₀ > 2000 mg/kg body weight [OECD 402]
Skin Irritation	Neither irritant nor corrosive effects [OECD 404]
Eye Irritation	Slight irritation but no corrosive effects [OECD 405]
Sensitization (guinea pig)	No reactions identified as sensitization [OECD 406]

SECTION 12: Ecological information (*)

12.1 Toxicity

*	On mixture: Very toxic to aquatic life with long lasting effects. Acute (short-term) toxicity: Fish: <i>Rainbow Trout</i> (96h) LC ₅₀ =5.4 mg/L Crustacea: <i>Daphnia magna</i> (48h) EC ₅₀ =9.3 mg/l Algae/aquatic plants: <i>Desmodesmus subspicatus</i> (72h) EC ₅₀ =0.193 mg/L
*	Chronic (long term) toxicity: Algae/aquatic plants: <i>Desmodesmus subspicatus</i> (72h) E _r C ₅₀ =0.015 mg/L E _b C ₅₀ =0.049 mg/L

12.2 Persistence and degradability

Linuron is not readily biodegradable.
Clomazone: Half-life (in water):1.5-7d
Half-life (in soil): 24-84d

12.3 Bioaccumulative potential

Clomazone: Octanol/water partition coefficient=2.5
Clomazone: BCF (Bioconcentration factor)=27-40

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available


12.6 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste-disposal procedures	Prevent dispersion. Remove waste product to a suitable incinerator. According to national or local legislation.
Waste of residues	Keep waste separate. Remove as chemical waste, according to national or local legislation.
Contaminated packaging	Keep waste packaging separate. Remove as chemical waste, according to national or local legislation.

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SECTION 14: Transport information

Land transport (RID/ADR)

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (linuron)
UN number	3082
Hazard identification number	90
Labelling	9
Class	9
Classification code	M6
Packaging group	III

Marine transport (IMO/IMDG)

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (linuron)
UN number	3082
Hazard identification number	90
Packaging group	III
EMS	F - A, S - F
Marine pollutant	Yes

Air transport (ICAO/IATA)

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (linuron)
UN number	3082
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 (*)

UK Classification and labelling according to DPD:

Symbols of danger:	T – Toxic N - Dangerous for the environment
R-phrases :	R40- Limited evidence of a carcinogenic effect. R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61 - May cause harm to unborn child. R62 - Possible risk of impaired fertility
S-phrases :	S1/2 - Keep locked up and out of the reach of children. S13 - Keep away from food, drink and animal feeding stuffs. S20/21 - When using do not eat, drink or smoke. S23 - Do not breathe spray. S35 - This material and its container must be disposed of in a safe way. S36/37 - Wear suitable protective clothing and gloves. S45 – In case of accident or if you feel unwell seek medical advice immediately (show the label where possible) S53 - Avoid exposure - obtain special instructions before use.

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S57 – Use appropriate containment to avoid environmental contamination
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.
SpO 2 Wash all protective clothing after use

Abbreviations:

R-phrases:

R8: Contact with combustible material may cause fire
R22: Harmful if swallowed
R20/22: Harmful by inhalation and if swallowed
R36: Irritating to eyes
R36/37/38: Irritating to eyes, respiratory system and skin

H-phrases:

H272: May intensify fire; oxidizer
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.

Classes:

Acute Tox 4: Acute toxicity category 4
Aquatic Acute 1: Aquatic Acute toxicity category 1
Aquatic Chronic 1 : Aquatic chronic toxicity category 1
Aquatic Chronic 2 : Aquatic chronic toxicity category 2
Carc 2: Carcinogenicity category 2
Eye Irrit 2: Eye irritation category 2
Ox Liq 2: Oxidizing Liquid category 2
Repro 1B : Reproductive toxicity category 1B
Skin Irrit 2: Skin irritation category 2
STOT SE 3: Specific target organ toxicity single exposure category 3
STOT RE 2: Specific target organ toxicity repeated exposure category 2

Sources of key data used:

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

Trade name:

Lingo[®] is a registered trademark 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).