



SAFETY DATA SHEET

Eximus

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Eximus

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier Gemini Agriculture Ltd
 8 Mythop Road
 Lytham St Annes
 Lancs
 FY8 4JP
 0845 8698756
 Sales@geminiag.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 845 8698756

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
 Health hazards Not Classified
 Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC) N; R50/53

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.
 P391 Collect spillage.
 P501 Dispose of contents/container in accordance with national regulations.

Supplemental label information May produce an allergic reaction. Contains: PENDIMETHALIN.

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2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

PENDIMETHALIN TECHNICAL	35-45%
CAS number: 40487-42-1	EC number: 254-938-2
M factor (Acute) = 1	M factor (Chronic) = 1

Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Sens. 1 - H317	N; R50/53. R43
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

Alcohols, C9-11, ethoxylated	3-5%
CAS number: 68439-46-3	

Classification	Classification (67/548/EEC or 1999/45/EC)
Eye Dam. 1 - H318	Xi; R41

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Remove contaminated clothing. Consult a physician for specific advice.
Inhalation	Move affected person to fresh air at once. Get medical attention.
Ingestion	Never give anything by mouth to an unconscious person. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention.
Eye contact	Wash with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information	See Section 11 for additional information on health hazards.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO ₂). Oxides of nitrogen.
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5.3. Advice for firefighters

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Protective actions during firefighting	Contain and collect extinguishing water. Control run-off water by containing and keeping it out of sewers and watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe vapour/spray. Avoid contact with skin, eyes and clothing.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Use appropriate containment to avoid environmental contamination. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Small Spillages: Absorb spillage with sand or other inert absorbent. Large Spillages: Pump off product. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Wash hands at the end of each work shift and before eating, smoking and using the toilet.
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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep away from food, drink and animal feeding stuffs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Store at temperatures between -5°C and 35°C. Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments	No exposure limits known for ingredient(s).
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PENDIMETHALIN TECHNICAL (CAS: 40487-42-1)

Ingredient comments	No exposure limits known for ingredient(s).
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8.2. Exposure controls

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Protective equipment



Eye/face protection

Safety glasses with side-shields (frame goggles).

Hand protection

Chemical resistant protective gloves (EN 374) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness, nitrile rubber (NBR) - 0.4 mm coating thickness and chloroprene rubber (CR) - 0.5 mm coating thickness. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashed or EN ISO 13982 in case of dust).

Hygiene measures

Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Eye wash facilities and emergency shower must be available when handling this product. Remove contaminated clothing immediately and wash skin with soap and water. The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Suspension.
Colour	Orange.
Odour	Slight. Aromatic.
pH	pH (diluted solution): ~7-9 @ 1% (M), 20°C
Melting point	<-20°C
Vapour pressure	23.4 hPa @ 20°C
Relative density	~ 1.10 g/cm ³ @ 20°C
Solubility(ies)	Dispersible in water.
Viscosity	196 mPa s @ 20°C
Explosive properties	not explosive

9.2. Other information

Other information	No information available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon dioxide (CO₂). Carbon monoxide (CO). Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Not sensitising. Buehler test - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Carcinogenicity The product has not been tested. The statement has been derived from the properties of the individual components.

Information on pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylylidine.

Assessment of carcinogenicity:

In long-term studies in rats the substance induced thyroid tumours. The effect is caused by an animal specific mechanism that has no human counter part. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.

Reproductive toxicity

Reproductive toxicity - fertility The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Reproductive toxicity - development Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

General information Misuse can be harmful to health.

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SECTION 12: Ecological Information

12.1. Toxicity

Toxicity The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Acute toxicity - fish LC₅₀, 96 hours: 1.01 mg/l, *Onchorhynchus mykiss* (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 46.8 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.158 mg/l, *Pseudokirchneriella subcapitata*
EC₅₀, 72 hours: 0.023 mg/l, *Scenedesmus subspicatus*

12.2. Persistence and degradability

Persistence and degradability Pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidene: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential BCF: 5100 (CAS: 40487-42-1),

12.4. Mobility in soil

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Dangerous for the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste.

Disposal methods Waste is suitable for incineration. Contaminated packaging should be disposed of in the same manner as contents.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains PENDIMETHALIN)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains PENDIMETHALIN)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains
PENDIMETHALIN)

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Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains PENDINGMETHALIN)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). Control of Pollution Act 1974. Control of Pollution (Special Waste) Regulations 1980 (as amended). Dangerous Substances Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
EU legislation	Dangerous Substances Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Approved Classification and Labelling Guide (Sixth edition) L131. Dangerous Substances Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	This is first issue.
Issued by	HS&E Manager.
Revision date	16/06/2015
Revision	1
SDS number	40122
SDS status	Approved.
Risk phrases in full	R43 May cause sensitisation by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Hazard statements in full	H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
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This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.