



SAFETY DATA SHEET METAMITRON 70 SC

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Belta

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

Identified uses Plant protection products.

1.3. Details of the supplier of the safety data sheet

Supplier Gemini Agriculture Ltd
71-75 Shelton Street
Covent Garden
London
WC2H 9JQ
james@geminiag.com
Tel: +44 20 3011 5515

1.4. Emergency telephone number

Emergency Telephone +44 20 3011 5515 9am to 5pm GMT

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Aquatic Acute 1 - H400

Classification (1999/45/EEC) Xn;R22. N;R50.

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

2.2. Label elements

Contains METAMITRON

Label In Accordance With (EC) No. 1272/2008

Signal Word Warning

Hazard Statements Very toxic to aquatic life.

H400

Precautionary Statements Wear protective gloves/protective clothing/eye protection/face protection.

P280

Wash contaminated skin thoroughly after handling.

P264

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P304+340

If skin irritation or rash occurs: Get medical advice/attention.

P333+313



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P403+233

Store in a well-ventilated place. Keep container tightly closed.

P501

Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

P273

Avoid release to the environment.

P301+312

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P391

Collect spillage.

Supplemental label information

EUH401

To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

METAMITRON	700 g/l min.
CAS-No.: 41394-05-2	EC No.: 255-349-3
Classification (EC 1272/2008) Acute Tox. 4 - H302 Aquatic Acute 1 - H400	Classification (67/548/EEC) Xn;R22 N;R50
GLYCEROL	5-10%
CAS-No.: 56-81-5	EC No.: 200-289-5
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.
POLYARYL ETHOXYLATE	1-5%
CAS-No.:	EC No.:
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Xi;R36/38. R52/53.
REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)	< 0.1%
CAS-No.: 55965-84-9	EC No.:
Classification (EC 1272/2008) Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) T;R23/24/25 C;R34 R43 N;R50/53

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

Composition Comments

Sensitising ingredients are present at <0.1% of the total mixture.

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SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures****General information**

Remove affected person from source of contamination. CAUTION! First aid personnel must be aware of own risk during rescue! Place unconscious person on the side in the recovery position and ensure breathing can take place.

Inhalation

Move the exposed person to fresh air at once. Get medical attention. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration.

Ingestion

Rinse mouth thoroughly. Get medical attention immediately! If breathing stops, provide artificial respiration.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed**General information**

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media****Extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture**Hazardous combustion products**

When heated, toxic and corrosive vapours/gases may be formed. Oxides of: Carbon. Nitrogen.

Specific hazards

Dike and collect extinguishing water. Avoid releasing to the environment. Do not discharge into drains, water courses or onto the ground.

5.3. Advice for firefighters**Special Fire Fighting Procedures**

In case of fire and/or explosion do not breathe fumes

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire. (EN 469)

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Warn everybody of potential hazards and evacuate if necessary.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Stop leak if possible without risk.

6.3. Methods and material for containment and cleaning up

Absorb with sand or other inert absorbent. Dike far ahead of larger spills for later disposal. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. This material and its container must be disposed of as hazardous waste.

6.4. Reference to other sections

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For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle and open container with care. Wear protective clothing as described in Section 8 of this safety data sheet. Do not release into the environment. Do not allow to enter drains, sewers or watercourses. Do not eat, drink or smoke when using the product. Wash hands after handling. Remove contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials listed in section 10 of this safety data sheet. Keep out of the reach of children.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
GLYCEROL	WEL		10 mg/m ³			

WEL = Workplace Exposure Limit.

METAMITRON (CAS: 41394-05-2)

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Engineering measures

Provide adequate ventilation.

Respiratory equipment

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2). If ventilation is insufficient, suitable respiratory protection must be provided. (EN 140/143)

Hand protection

Wear protective gloves (EN 374).

Eye protection

Avoid contact with eyes. Wear approved safety goggles (EN 166).

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Thermal hazards

No data available.

Environmental Exposure Controls

Do not release into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Appearance</u>	Liquid
<u>Colour</u>	White / off-white.
<u>Odour</u>	Characteristic.
<u>Initial boiling point and boiling range (°C)</u>	
Not available.	
<u>Melting point (°C)</u>	
Not available.	
<u>Relative density</u>	1.210

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Vapour pressure

Not available.

pH-Value, Conc. Solution 5 - 9

Viscosity

Not available.

Solubility Value (G/100G H₂O@20°C)

Not available.

Decomposition temperature (°C)

Not available.

Odour Threshold, Lower

Not available.

Odour Threshold, Upper

Not available.

Flash point (°C) > 100°C ISO 3679

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Explosive properties

Not applicable.

Oxidising properties

Does not meet the criteria for oxidising.

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not known.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD₅₀) <

2000 mg/kg Rat

Harmful if swallowed.

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Acute Toxicity (Dermal LD50) >

2000 mg/kg Rat

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Not irritating. Based on available data the classification criteria are not met.

Serious eye damage/irritation:

Not Irritating. Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:

Skin sensitisation

Buehler test: Guinea Pig

Not Sensitising. Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Genotoxicity - In Vitro

Calculation method.

Genotoxicity - In Vivo

Calculation method.

Based on available data the classification criteria are not met.

Carcinogenicity:

Carcinogenicity

Calculation method.

Based on available data the classification criteria are not met.

Reproductive Toxicity:

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure:

STOT - Single exposure

Calculation method.

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

Calculation method.

Based on available data the classification criteria are not met.

Aspiration hazard:

Not relevant, due to the form of the product.

Toxicological information on ingredients.

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METAMITRON (CAS: 41394-05-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

1183 mg/kg Rat

Harmful if swallowed.

Acute Toxicity (Dermal LD50)

> 5000 mg/kg

Based on available data the classification criteria are not met.

Acute Toxicity (Inhalation LC50)

3.17 mg/l (dust/mist) Rat 4 hours

Harmonised classification.

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Not irritating. Based on available data the classification criteria are not met.

Serious eye damage/irritation:

Not Irritating. Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:

Skin sensitisation

M & K test

Not Sensitising. Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Genotoxicity - In Vitro

Based on available data the classification criteria are not met.

Genotoxicity - In Vivo

Based on available data the classification criteria are not met.

Carcinogenicity:

No evidence of carcinogenicity in animal studies Based on available data the classification criteria are not met.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

NOAEL 97.2 mg/kg bw/day Oral Rat

Reproductive Toxicity - Development

Developmental toxicity: NOAEL 100 mg/kg bw/day Oral Rat

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure:

STOT - Single exposure

Data lacking.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

NOAEL 18.4 mg/kg bw/day Oral Rat

Based on available data the classification criteria are not met.

Aspiration hazard:

Not relevant, due to the form of the product.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute Fish Toxicity

Very toxic to aquatic life.

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Ecological information on ingredients.METAMITRON (CAS: 41394-05-2)Acute Toxicity - Fish

LC50 96 hours > 190 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours = 5.7 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EbC50 72 hours = 0.4 mg/l Pseudokirchneriella subcapitata

ErC50 72 hours = 1.8 mg/l Pseudokirchneriella subcapitata

Chronic Toxicity - Fish Early life Stage

NOEC 21 days = 7 mg/l Onchorhynchus mykiss (Rainbow trout)

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days = 10 mg/l Daphnia magna

12.2. Persistence and degradabilityEcological information on ingredients.METAMITRON (CAS: 41394-05-2)Degradability

The product is not expected to be biodegradable.

Biodegradation

Soil DT50 = 30 days

12.3. Bioaccumulative potentialEcological information on ingredients.METAMITRON (CAS: 41394-05-2)Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

log Pow = 0.85

12.4. Mobility in soilEcological information on ingredients.METAMITRON (CAS: 41394-05-2)Mobility:

Semi-mobile.

Adsorption/Desorption Coefficient

Soil Koc ~ 80.7

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.METAMITRON (CAS: 41394-05-2)

No chemical safety assessment has been carried out.

12.6. Other adverse effects

None known.

Ecological information on ingredients.METAMITRON (CAS: 41394-05-2)

Not available.

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General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

Waste is suitable for incineration. Contact specialist disposal companies. Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

<u>UN No. (ADR/RID/ADN)</u>	3082
<u>UN No. (IMDG)</u>	3082
<u>UN No. (ICAO)</u>	3082

14.2. UN proper shipping name

<u>Proper Shipping Name</u>	ENVIRONMENTALLY HAZARDOUS, LIQUID, N.O.S.
<u>Proper Shipping Name</u>	(contains Metamitron)

14.3. Transport hazard class(es)

<u>ADR/RID/ADN Class</u>	9
<u>ADR/RID/ADN Class</u>	Class 9: Miscellaneous dangerous substances and articles.
<u>IMDG Class</u>	9
<u>ICAO Class/Division</u>	9
<u>Transport Labels</u>	

MISCELLANEOUS
DANGEROUS
GOODS
9

14.4. Packing group

<u>ADR/RID/ADN Packing group</u>	III
<u>IMDG Packing group</u>	III
<u>ICAO Packing group</u>	III

14.5. Environmental hazards



14.6. Special precautions for user

Not applicable.

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

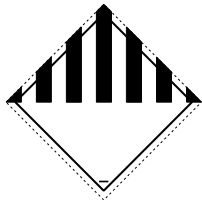
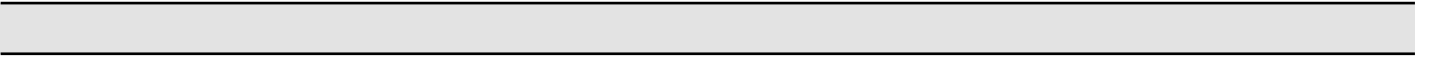
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).



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EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Health and Environmental Listings

Regulation EC 2037/2000 on substances that deplete the ozone layer. Regulation EC 689/2008 concerning the export and import of dangerous chemicals. None of the ingredients are listed.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

PBT - Persistent, bioaccumulative and toxic. EN - European standard adopted by the European Committee for Standardisation. vPvB - Very persistent and very bioaccumulative

Information Sources

The International Union of Pure and Applied Chemistry (IUPAC) pesticide properties database - <http://sitem.herts.ac.uk/aeru/iupac/index.htm> Conclusion regarding the peer review of the pesticide risk assessment of the active substance completed by the European Food Safety Authority - <http://www.efsa.europa.eu/cs/Satellite> International Chemical Safety Card. Available from www.inchem.org. Review report for active substances by the Directorate General for Health and Consumer Affairs (DG SANCO) - http://ec.europa.eu/sanco_pesticides/public/index.cfm?event=activesubstance.selection Supplier safety data sheet (SDS).

Revision Date 03/07/2020

Revision 1

Risk Phrases In Full

R34	Causes burns.
R22	Harmful if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
NC	Not classified.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50	Very toxic to aquatic organisms.

Hazard Statements In Full

H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H412	Harmful to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

Disclaimer

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.