

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

1.1. Product identifier

Product name: DELTA 2.5 EC (also marketed as 'Noveny')

Chemical name: Deltamethrin 2.5% w/v (25 g/L)

Product type: Emulsifiable concentrate (EC) containing 25 g/L deltamethrin in an aromatic hydrocarbon solvent carrier

Originator baseline: Bayer Decis® EC25 (Bayer CropScience, product code 06184170, SDS v1 dated 10/08/2016)

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

Identified use: Insecticide. For professional use as either a plant protection product (subject to CRD MAPP authorisation) or a biocidal product (subject to HSE BPR authorisation) — refer to product label and confirm the authorisation basis with Gemini Agriculture Ltd.

1.3. Details of the supplier of the safety data sheet

Supplier: Gemini Agriculture Ltd
71-75 Shelton Street, Covent Garden
London WC2H 9JQ, United Kingdom
Tel: +44 (0)20 3011 5515
Email: sales@geminiag.com
Web: geminiag.com

1.4. Emergency telephone number

Company 24h emergency line: +44 (0)20 3011 5515 (Gemini office hours — see recommendation below)

UK medical emergency: NHS 111 (England, Scotland, Wales) / 999 in life-threatening emergency. UK National Poisons Information Service (health professionals only): 0344 892 0111.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under GB CLP: Flammable liquids, Category 3: H226
Acute toxicity (Oral), Category 4: H302
Aspiration hazard, Category 1: H304
Skin irritation, Category 2: H315
Serious eye damage, Category 1: H318
Acute toxicity (Inhalation), Category 4: H332
STOT — Single Exposure, Category 3: H335 (respiratory irritation)
STOT — Single Exposure, Category 3: H336 (drowsiness/dizziness)
Aquatic Acute, Category 1: H400
Aquatic Chronic, Category 1: H410

2.2. Label elements

Signal word: Danger

Hazard pictograms: GHS02: Flame (Flam. Liq. 3)
GHS05: Corrosion (Eye Dam. 1)
GHS07: Exclamation mark (Acute Tox. 4, STOT SE 3)
GHS08: Health hazard (Asp. Tox. 1)
GHS09: Environment (Aquatic Acute 1 / Chronic 1)

Hazardous components which must be listed on the label: Deltamethrin
Solvent naphtha (petroleum), light aromatic

Hazard statements:	H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H318: Causes serious eye damage. H332: Harmful if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H410: Very toxic to aquatic life with long lasting effects. EUH401: To avoid risks to human health and the environment, comply with the instructions for use.
Precautionary statements — prevention:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240: Ground/bond container and receiving equipment. P243: Take precautionary measures against static discharge. P264: Wash contaminated skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves, protective clothing, eye protection and face protection.
Precautionary statements — response:	P302+P352: IF ON SKIN: Wash with plenty of water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311: IF exposed or concerned: Call a POISON CENTER/ doctor/ physician. P332+P313: If skin irritation occurs: Get medical advice/attention. P362: Take off contaminated clothing. P370+P378: In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
Precautionary statements — storage & disposal:	P233: Keep container tightly closed. P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. P501: Dispose of contents/container in accordance with local regulations (to a licensed hazardous-waste disposal contractor).

2.3. Other hazards

Cutaneous sensations:	Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Typical pyrethroid paraesthesia — not a sign of systemic poisoning.
PBT / vPvB:	This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Chemical nature: Emulsifiable concentrate (EC). Deltamethrin 25 g/L in a solvent naphtha (light aromatic) carrier.

Hazardous ingredients:

Name	CAS-No.	EC / Index / REACH	Classification	% w/w
Deltamethrin (ISO)	52918-63-5	EC 258-256-6	Acute Tox. 3 (Oral) H301; Acute Tox. 3 (Inh.) H331; Aquatic Acute 1 H400 (M=1,000,000); Aquatic Chronic 1 H410 (M=1,000,000)	2.5 – 2.8%

Name	CAS-No.	EC / Index / REACH	Classification	% w/w
Solvent naphtha (petroleum), light aromatic (Hydrocarbons, C9, aromatics)	64742-95-6	EC 918-668-5 / REACH 01-2119486773-24 (or 01-2119455851-35)	Flam. Liq. 3 H226; STOT SE 3 H335, H336; Asp. Tox. 1 H304; Aquatic Chronic 2 H411	≥ 25 – 100%
Tetrapropylene benzene sulfonate, calcium salt (Benzene sulphonic acid, 4-C10-14-alkyl derivatives, calcium salts)	11117-11-6 / 90194-26-6	EC 290-635-1	Acute Tox. 4 (Dermal) H312; Skin Irrit. 2 H315; Eye Dam. 1 H318; Aquatic Chronic 3-4 H412/H413	1 – 25%
2-Methylpropan-1-ol (iso-butanol)	78-83-1	EC 201-148-0	Flam. Liq. 3 H226; Skin Irrit. 2 H315; Eye Dam. 1 H318; STOT SE 3 H335, H336	1 – 5%
2,6-Di-tert-butyl-4-methylphenol (BHT)	128-37-0	EC 204-881-4 / REACH 01-2119555270-46	Aquatic Acute 1 H400 (M=1); Aquatic Chronic 1 H410 (M=1)	0.1 – < 1%

Deltamethrin M-factor: 1,000,000 (acute), 1,000,000 (chronic). For explanation of abbreviations and full text of H-statements referenced above, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

- General advice:** Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely. First-aid personnel must be aware of own risk during rescue.
- If inhaled:** Move to fresh air. Keep patient warm and at rest. Call a physician or poison control centre immediately.
- Skin contact:** Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paraesthesia — this is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.
- Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Warm water may increase the subjective severity of the irritation/paraesthesia — this is not a sign of systemic poisoning. Apply soothing eye drops if needed. Get medical attention if irritation develops and persists.
- Ingestion:** Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting (aspiration hazard — the aromatic hydrocarbon carrier may enter the lungs and cause chemical pneumonitis). Do not leave victim unattended. Call a physician or poison control centre immediately.

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

- Local symptoms:** Skin and eye paraesthesia which may be severe. Usually transient with resolution within 24 hours. Skin, eye and mucous membrane irritation. Cough, sneezing.
- Systemic symptoms:** Discomfort in the chest, tachycardia, hypotension. Nausea, abdominal pain, diarrhoea, vomiting. Blurred vision. Headache, anorexia, somnolence, coma, convulsions, tremors, prostration. Airway hyperreaction, pulmonary oedema. Palpitation, muscular fasciculation, apathy, dizziness.

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

- Risks:** This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

Treatment: Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion, gastric lavage should be considered only in cases of significant ingestions within the first 2 hours. Application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used.

Contraindications: Atropine. Derivatives of adrenaline.

Antidote: There is no specific antidote. Recovery is spontaneous and without sequelae.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO₂).

Unsuitable extinguishing media: High-volume water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Dangerous gases are evolved in the event of a fire. Contain and collect extinguishing water. Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground. Containers close to fire should be removed or cooled with water.

Hazardous combustion products: Toxic gases/vapours/fumes of: hydrogen bromide (HBr). Oxides of: nitrogen, carbon.

5.3. Advice for fire-fighters

Special protective equipment: Wear full protective clothing (EN 469). Wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.

Further information: Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people away from and upwind of spill/leak. Wear protective clothing as described in Section 8. Provide adequate ventilation. Warn everybody of potential hazards and evacuate if necessary. Eliminate all sources of ignition. Take precautionary measures against static discharges. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or watercourses or onto the ground. Stop leak if safe to do so. Do not allow to enter surface water, drains or ground water. Inform the Environment Agency (or SEPA/NIEA) if spillage enters surface or ground waters.

6.3. Methods and material for containment and cleaning up

Cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike far ahead of larger spills for later disposal. Collect and place in suitable waste disposal containers and seal securely. Label containers containing waste and contaminated materials and remove from the area as soon as possible. Use only non-sparking tools. Earth container and transfer equipment to eliminate sparks from static electricity. Clean floors and contaminated objects thoroughly, observing environmental regulations.

6.4. Reference to other sections

Reference: See Sections 7 (handling), 8 (personal protective equipment) and 13 (disposal).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Handle and open container with care. Wear protective clothing as described in Section 8. Ensure adequate ventilation. Eliminate all sources of ignition — no smoking, sparks, flames or other sources of ignition near spillage. Take precautionary measures against static discharges. Do not release into the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

Advice on protection against fire and explosion: Keep away from heat and sources of ignition. Vapours may form explosive mixture with air. Take measures to prevent the build-up of electrostatic charge. Use only explosion-proof equipment.

Hygiene measures: When using, do not eat, drink or smoke. Remove soiled clothing immediately and clean thoroughly before using again. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Wash hands immediately after work; if necessary, take a shower.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a place accessible by authorised persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from freezing. Keep away from direct sunlight. Store away from incompatible materials listed in Section 10.5. Keep out of the reach of children.

Advice on common storage: Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific use(s): Insecticide. Refer to product label and/or leaflet.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Occupational exposure limits (HSE EH40):

Substance	TWA (8 h)	STEL (15 min)
Deltamethrin (52918-63-5)	0.02 mg/m ³ (OES BCS — Bayer internal recommendation)	—
Iso-butanol / 2-methylpropan-1-ol (78-83-1)	154 mg/m ³ / 50 ppm (UK WEL)	231 mg/m ³ / 75 ppm (UK WEL)
BHT / 2,6-Di-tert-butyl-p-cresol (128-37-0)	10 mg/m ³ (UK WEL)	—
Aromatic hydrocarbons > 25% (TRGS 901 No. 72)	100 mg/m ³ / 20 ppm (Group 3 reference)	—

8.2. Exposure controls

Engineering controls: Provide adequate ventilation. Local exhaust or general room ventilation.

Respiratory protection: Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN 140 Type A or equivalent. If ventilation is inadequate, use a combination filter type A2/P2 (EN 140/143). Respiratory protection should only be used to control residual risk of short-

Substance	TWA (8 h)	STEL (15 min)
	duration activities, when all reasonably practicable steps have been taken to reduce exposure at source (containment, local exhaust ventilation).	
Hand protection (EN 374):	Nitrile rubber gloves, thickness > 0.4 mm, breakthrough > 480 min (Protection Class 6). Wash gloves when contaminated. Dispose of when contaminated inside, perforated, or when contamination on the outside cannot be removed.	
Eye/face protection:	Wear goggles conforming to EN 166 (Field of Use = 5 or equivalent).	
Skin and body protection:	Wear standard coveralls and Category 3 Type 6 suit. Wear two layers of clothing wherever possible — polyester/cotton or cotton overalls should be worn under the chemical-protection suit and professionally laundered frequently. If chemical-protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.	
Environmental exposure controls:	Do not release into the environment.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form / physical state:	Liquid, clear
Colour:	Yellow to amber
Odour:	Aromatic (aromatic hydrocarbons)
pH:	4.0 – 6.0 (1% dilution, 23 °C, deionised water)
Melting point:	Not available
Boiling range:	Not available
Flash point:	47 – 48 °C (ISO 3679)
Ignition temperature:	> 450 °C (data refers to solvent naphtha carrier)
Upper explosion limit:	7.00 %(V) (solvent naphtha carrier)
Lower explosion limit:	0.8 %(V) (solvent naphtha carrier)
Vapour pressure:	Not available
Relative vapour density:	1.00 (solvent naphtha carrier)
Density:	Approx. 0.89 – 0.91 g/cm ³ at 20 °C
Water solubility:	Emulsifiable
Partition coefficient log Pow (deltamethrin):	6.4 at 25 °C
Kinematic viscosity:	Approx. 1.09 mm ² /s at 40 °C
Surface tension:	Approx. 27.3 mN/m at 40 °C
Explosive properties:	Not applicable
Oxidising properties:	No oxidising properties

9.2. Other information

Other information: Further safety-related physical-chemical data are not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Chemical stability: Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Hazardous reactions: Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Hydrogen bromide (HBr). Nitrous gases (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product-level acute toxicity (based on Bayer Decis EC25 test data — same formulation):

Route	Species	Value	Notes
Oral (LD50)	Rat	416 mg/kg	Acute Tox. 4 — Harmful if swallowed
Dermal (LD50)	Rat	> 2,000 mg/kg	Not classified
Inhalation (LC50, 4 h)	Rat	2.69 mg/l	Acute Tox. 4 — Harmful if inhaled; irritating to respiratory system

Skin corrosion / irritation: Irritating to skin (rabbit).

Serious eye damage / irritation: Severe eye irritation (rabbit).

Respiratory / skin sensitisation: Non-sensitising (guinea pig, OECD 406 Buehler test).

Germ cell mutagenicity: Deltamethrin was not mutagenic or genotoxic in a battery of in-vitro and in-vivo tests.

Carcinogenicity: Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

Reproductive toxicity — fertility: Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

Developmental toxicity: Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with deltamethrin are related to maternal toxicity.

STOT — single exposure: Category 3: May cause respiratory irritation (H335). Category 3: May cause drowsiness or dizziness (H336). Driven by the aromatic hydrocarbon carrier.

STOT — repeated exposure: Deltamethrin caused neurobehavioural effects and/or neuropathological changes in animal studies. The toxic effects of deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity. Not classified for STOT-RE at product level.

Aspiration hazard: Category 1: May be fatal if swallowed and enters airways (H304). Driven by the low-viscosity aromatic hydrocarbon carrier.

11.2. Information on other hazards

Cutaneous sensations: Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours) — characteristic pyrethroid paraesthesia.

SECTION 12: Ecological information

12.1. Toxicity

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

Product-level ecotoxicity (Bayer Decis EC25 baseline):

Endpoint	Species	Value
Toxicity to fish (LC50, 96 h)	Oncorhynchus mykiss (Rainbow trout)	0.0093 mg/l
Toxicity to aquatic invertebrates (EC50, 48 h)	Daphnia magna (Water flea)	0.0039 mg/l
Toxicity to aquatic plants (EC50, 96 h)	Raphidocelis subcapitata	60.7 mg/l

Deltamethrin component data:

Endpoint	Value
Bioconcentration factor (BCF, fish)	1,400 — does not bioaccumulate significantly
Partition coefficient (log Pow)	6.4 (25 °C)
Koc (soil adsorption)	10,240,000 — immobile in soil
Biodegradability	Not rapidly biodegradable
M-factor (acute / chronic)	1,000,000 / 1,000,000

12.2. Persistence and degradability

Assessment: Deltamethrin: not rapidly biodegradable. Solvent naphtha: readily biodegradable (< 28 days, 60% degradation).

12.3. Bioaccumulative potential

Deltamethrin: BCF = 1,400. Does not bioaccumulate significantly despite log Pow of 6.4.

12.4. Mobility in soil

Deltamethrin: Immobile in soil (Koc: 10,240,000).

12.5. Results of PBT and vPvB assessment

Assessment: This product does not contain any substances classified as PBT or vPvB. Deltamethrin: not considered persistent, bioaccumulative and toxic (PBT); not considered very persistent and very bioaccumulative (vPvB).

12.6. Other adverse effects

Other effects: No further ecological information is available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General: Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

- Product disposal:** Waste is suitable for incineration at a licensed installation. Dispose of via a licensed waste disposal contractor. In accordance with local regulations and, if necessary, after consultation with the site operator and/or with the responsible authority.
- Contaminated packaging:** Triple-rinse containers using an integrated pressure rinsing device or manually rinse three times; add rinsate to the spray tank. Do NOT re-use empty containers. Empty containers can be sent for disposal or recycling. Empty containers may contain residue and can be dangerous. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.

SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN / IMDG / UN 1993
IATA:

14.2. UN proper shipping name

Shipping name: FLAMMABLE LIQUID, N.O.S. (DELTAMETHRIN, SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC SOLUTION)

14.3. Transport hazard class(es)

Class: 3 — Flammable liquids

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous / Marine pollutant: Yes (ADR / IMDG). IATA: No 'Mark as dangerous for the environment' needed.

14.6. Special precautions for user

Hazard identification number (Kemler): 30
Tunnel restriction code: D/E
Special provision (ADR): 640E

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport: Not applicable.

SECTION 15: Regulatory information

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

- GB CLP:** Regulation (EC) No 1272/2008 as retained in GB law (UK SI 2019/720 and UK SI 2020/1567).
- UK REACH:** Regulation (EC) No 1907/2006 as retained in UK law (UK SI 2019/758 and UK SI 2020/1577). Contains no substances subject to authorisation (Annex XIV) or restriction (Annex XVII).
- GB Plant Protection Products Regulation (if applicable):** Regulation (EC) No 1107/2009 as retained in GB law. If Delta 2.5 EC is being sold as an agricultural insecticide, a MAPP number is required from HSE / CRD before placing on the GB market.
- GB Biocidal Products Regulation (if applicable):** Regulation (EU) 528/2012 as retained in GB law (UK BPR). If Delta 2.5 EC is being sold as a biocide (public-health / veterinary / domestic pest control), a UK BPR authorisation is required.

Transport:	Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348), Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997, Air Navigation Dangerous Goods Regulations 2002.
COSHH:	The Control of Substances Hazardous to Health Regulations 2002 (as amended). Refer to HSE Guidance Note EH40 for occupational exposure limits.
DSEAR:	Dangerous Substances and Explosive Atmospheres Regulations 2002 apply given the Flam. Liq. 3 classification.
Waste treatment:	Environmental Protection Act 1990 Part II; Environmental Protection (Duty of Care) Regulations 1991; Hazardous Waste Regulations 2005 (as amended).
WHO classification:	II — Moderately hazardous.

15.2. Chemical Safety Assessment

CSA: No chemical safety assessment has been carried out for the mixture.

SECTION 16: Other information

Revision

This revision:	Revision 2.0 — issued 19/08/2026.
Supersedes:	Version 1.0 (16/01/2025).
Reason for revision:	Alignment with the confirmed originator baseline — Bayer Decis® EC25 SDS v1 (10/08/2016), which is a direct formulation match for Delta 2.5 EC. Fix of the truncated/mis-formatted Section 1.4 emergency telephone number. Fix of the Shelton Street address typo. Import of proper pyrethroid-specific first-aid material from the Bayer originator. Population of Section 11 tox and Section 12 ecotox with proper deltamethrin data. Update of Section 15 regulatory references from pre-Brexit CHIP 2009 / EU DSD framework to current GB CLP and UK REACH SI. Reformat into the harmonised Gemini SDS template with logo and green section bars.

Actions required before external issue

- Confirm with Gemini regulatory whether Delta 2.5 EC is authorised in GB as a Plant Protection Product (needs MAPP from CRD) or as a Biocide (needs BPR authorisation from HSE). Update Section 1.2 and Section 15.1 accordingly. The current SDS says 'biocidal' but the deltamethrin content and EC formulation would work in either regime.
- Submit PCN via HSE portal for Delta 2.5 EC UFI code. Deadline for products on the GB market was 1 January 2025 — overdue.
- Confirm 24 h emergency line — recommend contracting NCEC at Culham for a Gemini portfolio-wide 24 h chemical emergency contract.
- Portfolio audit reminder: the +44 20 3011 55154 error in Delta v1.0 (extra digit) is a different error mode than the +44 20 3011 551 error (missing digit) confirmed in Mepicon and Namnar. Both are template errors in different directions. Audit every current Gemini SDS Section 1.3 and 1.4 telephone numbers to catch every variant.

Full text of H- and EUH-statements referenced in Sections 2 and 3

Statements:	H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. H331: Toxic if inhaled. H332: Harmful if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H400: Very toxic to aquatic life.
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H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.
H413: May cause long lasting harmful effects to aquatic life.
EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

Abbreviations

Abbreviations: ADR / RID / ADN: European Agreements on international carriage of dangerous goods.
ATE: Acute Toxicity Estimate.
BCF: Bioconcentration Factor.
BHT: 2,6-Di-tert-butyl-4-methylphenol.
BPR: Biocidal Products Regulation.
CLP: Classification, Labelling and Packaging Regulation (EC) No 1272/2008.
DNEL: Derived No-Effect Level.
EC (formulation): Emulsifiable concentrate.
IMDG: International Maritime Dangerous Goods code.
LD50 / LC50: Lethal Dose / Lethal Concentration, 50%.
MAPP: Ministerially Approved Plant Protection product number.
NCEC: National Chemical Emergency Centre (Culham, UK).
OES BCS: Bayer AG Crop Science Division internal Occupational Exposure Standard.
PBT / vPvB: Persistent, Bioaccumulative and Toxic / very Persistent and very Bioaccumulative.
PNEC: Predicted No-Effect Concentration.
PPR: Plant Protection Products Regulation.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals.
STOT SE / RE: Specific Target Organ Toxicity – Single / Repeated Exposure.
UFI: Unique Formula Identifier.
WEL: Workplace Exposure Limit (HSE EH40).
WHO: World Health Organisation.

Data sources

Sources: Content derived from Bayer CropScience Inc. Decis® EC25 12X1L BOT PH Safety Data Sheet (product code UVP 06184170, version 1 dated 10/08/2016), which is a direct formulation match for Delta 2.5 EC. Legacy content preserved from Gemini Agriculture Ltd Delta 2.5 EC Safety Data Sheet (v1.0 dated 16/01/2025) where relevant. Substance-level data for deltamethrin, solvent naphtha (hydrocarbons C9 aromatics), iso-butanol, calcium alkylbenzene sulfonate and BHT from the respective REACH registration dossiers and Annex VI of Regulation (EC) No 1272/2008.

Legal disclaimer

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 Gemini Agriculture Ltd'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 themselves as to the suitability of such information for their own particular use.