



SAFETY DATA SHEET FEUD

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name FEUD

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

Identified uses Herbicide

1.3. Details of the supplier of the safety data sheet

Supplier Gemini Agriculture Limited
71-75 Shelton Street
Covent Garden
London
WC2H 9JQ
+44 (0)20 30115515
sales@geminiag.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 845 564 6959

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 STOT RE 2 - H373

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Pictogram



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.

H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.

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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Supplemental label information	EUH208 Contains Flufenacet, 5-chloro-2-methyl-isothiazol-3-one/2-methyl-isothiazol-3-one. May produce an allergic reaction. EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
Contains	FLUFENACET , DIFLUFENICAN
Supplementary precautionary statements	P260 Do not breathe vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P314 Get medical advice/ attention if you feel unwell. P330 Rinse mouth. P391 Collect spillage.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

FLUFENACET	40%
CAS number: 142459-58-3	
M factor (Acute) = 100	M factor (Chronic) = 100
Classification	
Acute Tox. 4 - H302	
Skin Sens. 1 - H317	
STOT RE 2 - H373	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
GLYCERINE	>1%
CAS number: 56-81-5	
EC number: 200-289-5	
Classification	
Not Classified	
DIFLUFENICAN	10%
CAS number: 83164-33-4	
Classification	
Aquatic Chronic 3 - H412	

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Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-8] (3:1)		>0.0002-<0.0015%
CAS number: 55965-84-9		
M factor (Acute) = 10	M factor (Chronic) = 1	
Classification Acute Tox. 3 - H301 Acute Tox. 2 - H310 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

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

Composition comments Suspension concentrate (=flowable concentrate)(SC) Flufenacet/Diflufenican 400:100 g/l

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Evacuate area. Immediate first aid is imperative. Get medical attention immediately. Place unconscious person on their side in the recovery position and ensure breathing can take place. Remove contaminated clothing immediately and wash skin with soap and water.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.)
Skin contact	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
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

Ingestion	Harmful if swallowed. May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed. If exposed to large concentrations: Shortness of breath. Drowsiness. Headache. Tiredness. Dizziness. Nausea. The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Danger of formation of methaemoglobin.
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Specific treatments Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. In case of methaemoglobinemia, oxygen and specific antidotes (methylene blue/ toluidine blue) should be given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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 Hydrogen cyanide (HCN). Hydrogen fluoride (HF). Carbon monoxide (CO). Oxides of nitrogen. Oxides of sulphur.

5.3. Advice for firefighters

Protective actions during firefighting Control run-off water by containing and keeping it out of sewers and watercourses. Contain and collect extinguishing water.

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 Good personal hygiene procedures should be implemented. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

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. Avoid contact with skin, eyes and clothing. Observe any occupational exposure limits for the product or ingredients.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Garments that cannot be cleaned must be destroyed (burnt). 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.

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from frost. Protect from freezing and direct sunlight. Suitable materials HDPE (high density polyethylene) Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Specific end use(s) Refer to the label and/or leaflet.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

GLYCERINE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-8] (3:1)

Long-term exposure limit (8-hour TWA): 0.076 mg/m³

WEL = Workplace Exposure Limit

FLUFENACET (CAS: 142459-58-3)

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

GLYCERINE (CAS: 56-81-5)

DNEL Consumer - Oral; Long term systemic effects: 229 mg/kg/day
Consumer - Inhalation; Long term local effects: 33 mg/m³
Professional - Inhalation; Long term local effects: 56 mg/m³

PNEC

- Soil; 0.141 mg/kg
- STP; 1000 mg/l
- Fresh water; 0.885 mg/l
- Intermittent release; 8.85 mg/l
- Marine water; 0.0885 mg/l
- Sediment (Freshwater); 3.3 mg/kg
- Sediment (Marinewater); 0.33 mg/kg

DIFLUFENICAN (CAS: 83164-33-4)

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

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Wear chemical splash goggles. Manufactured/tested in accordance with EN 166.

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Hand protection	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. Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. The selected gloves should have a breakthrough time of at least 8 hours. To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Wear standard coveralls and Category 3 Type 4 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If there is a risk of significant exposure, consider a higher protective type suit.
Hygiene measures	Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection is not required under anticipated circumstances of exposure. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Suspension.
Colour	White. to Beige.
Odour	Weak. Characteristic.
pH	pH (concentrated solution): 4.0-6.5 @ 100% @ 23°C
Flash point	>100°C No flash point - Determination conducted up to the boiling point.
Relative density	1.19 g/cm ³ @ 20°C
Solubility(ies)	Dispersible.

9.2. Other information

Other information	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under recommended storage conditions.
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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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.
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10.4. Conditions to avoid

Conditions to avoid	Extremes of temperature and direct sunlight. Protect from frost.
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10.5. Incompatible materials

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Materials to avoid No specific requirements are anticipated under normal conditions of use.

10.6. Hazardous decomposition products

Hazardous decomposition products No decomposition products expected under normal conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,472.5

Acute toxicity - dermal

Notes (dermal LD₅₀) LD50 (rat) > 4,000 mg/kg Test conducted with a similar formulation.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 (rat) > 2.078 mg/l Exposure time: 4 h Highest attainable concentration. Test conducted with a similar formulation.

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. Read-across data.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Read-across data.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Carcinogenicity

Carcinogenicity Flufenacet was not carcinogenic in lifetime feeding studies in rats and mice. Diflufenican was not carcinogenic in lifetime feeding studies in rats and mice.

Reproductive toxicity

Reproductive toxicity - development

Flufenacet caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Flufenacet are related to maternal toxicity. Diflufenican did not cause developmental toxicity in rats and rabbits.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Target organs Nervous system

General information

The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis.

Ingestion

Harmful if swallowed. May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed. If exposed to large concentrations: Shortness of breath. Drowsiness. Headache. Tiredness. Dizziness. Nausea. The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis.

Toxicological information on ingredients.

FLUFENACET

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 589.0

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Species	Rat
ATE oral (mg/kg)	589.0
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	>2000 mg/kg Rat
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC50 Inhalation (4h), rat >3700 ppm
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	May cause an allergic skin reaction.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Inhalation	Possible slight nasal irritation and discharge. May cause delayed health effects.
Ingestion	Possible mild gastrointestinal effects. May cause serious damage to health by prolonged exposure if swallowed.
Skin contact	Redness. Itchiness. May cause an allergic skin reaction.
Eye contact	Redness. Swelling.

DIFLUFENICAN

Other health effects	There is no evidence that the product can cause cancer.
<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	2,000.0
Species	Rat
<u>Acute toxicity - dermal</u>	

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Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rat

Carcinogenicity

IARC carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction. Diflufenican did not cause reproductive toxicity in a two-generation study in rats.

Reproductive toxicity - development This substance has no evidence of toxicity to reproduction. Diflufenican did not cause developmental toxicity in rats and rabbits.

Inhalation No specific health hazards known.

Ingestion May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact No specific health hazards known. Not a skin sensitiser.

Eye contact May cause temporary eye irritation.

SECTION 12: Ecological Information

Ecological information on ingredients.

DIFLUFENICAN

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 54.9 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 68.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.00885 mg/l, Pseudokirchneriella subcapitata

Ecological information on ingredients.

FLUFENACET

Acute aquatic toxicity

LE(C)₅₀ 0.001 < L(E)C₅₀ ≤ 0.01

M factor (Acute) 100

Acute toxicity - fish LC₅₀, 96 hours: 2.13 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 30.9 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.00452 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic) 100

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Toxicity to soil LC50 Earthworms, Eisenia foetida (14 days): 218.8 mg/kg d.w. soil

DIFLUFENICAN

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 56-100 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC50, 96 hours: 105 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates Daphnia: LC50 (48h) - no effect at 10 mg/l.

Acute toxicity - aquatic plants Algae: No growth inhibition of algae (96h) at 10mg/l

Acute toxicity - microorganisms Not available.

Acute toxicity - terrestrial LC₅₀, : > 4000 mg/kg, Anas Platyrhynchos (Mallard duck)

12.2. Persistence and degradability

Ecological information on ingredients.

FLUFENACET

Persistence and degradability Not readily biodegradable.

DIFLUFENICAN

Persistence and degradability Not rapidly biodegradable. Koc 3417

12.3. Bioaccumulative potential

Ecological information on ingredients.

FLUFENACET

Bioaccumulative potential BCF: 71.4, Fish

Partition coefficient log Pow: 3.2 @24°C

DIFLUFENICAN

Bioaccumulative potential BCF: 1596, The product is not bioaccumulating.

Partition coefficient log Pow: 4.2

12.4. Mobility in soil

Ecological information on ingredients.

FLUFENACET

Mobility Moderately mobile

DIFLUFENICAN

Mobility Slightly mobile in soils.

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

FLUFENACET

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

DIFLUFENICAN

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not available.

Ecological information on ingredients.

FLUFENACET

Other adverse effects None known.

DIFLUFENICAN

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Disposal methods Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times. Add washings to sprayer at time of filling. Dispose of empty and cleaned packaging safely. Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose. Return large containers to supplier. Follow advice on product label and/or leaflet.

Waste class 020108 agrochemical waste containing dangerous substances

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. (FLUFENACET, DIFLUFENICAN SOLUTION)

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Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUFENACET, DIFLUFENICAN SOLUTION)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUFENACET, DIFLUFENICAN SOLUTION)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUFENACET, DIFLUFENICAN SOLUTION)

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 MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No transport in bulk according to the IBC Code.

SECTION 15: Regulatory information

FEUD

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

National regulations	<p>The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).</p> <p>EH40/2005 Workplace exposure limits.</p> <p>Health and Safety at Work etc. Act 1974 (as amended).</p> <p>Control of Pollution Act 1974.</p> <p>Control of Pollution (Special Waste) Regulations 1980 (as amended).</p> <p>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).</p> <p>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).</p>
EU legislation	<p>Commission Regulation (EU) No 2015/830 of 28 May 2015.</p> <p>Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.</p> <p>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).</p> <p>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).</p>
Guidance	<p>Introduction to Local Exhaust Ventilation HS(G)37.</p> <p>Workplace Exposure Limits EH40.</p> <p>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).</p>

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Issued by	HS&E Manager.
Revision date	15/03/2018
Revision	2
Supersedes date	25/07/2016
SDS number	40633
SDS status	Approved.

FEUD

Hazard statements in full

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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.