

## MATERIAL SAFETY DATA SHEET V5 Jan 2021

### DELTABIOL FLOW (DELTAMETHRIN 2.5% SC)

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name:** Deltamethrin

**Trade Name:** Deltabiol Flow

**Company Name:** SHARDA EUROPE B.V.B.A - SPAIN

**Address:** Jozef Mertenstraat 142, 1702 Dilbeek Belgium

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS number	Result (%)
Deltamethrin technical (98.5%)	52918-63-5	2.56 to give 2.5 % deltamethrin pure
Denatonium benzoate	3734-33-6	0.002
Propylene glycol	57-55-6	15.39
A mixture of a condensation product of aryl sulphonate and aldehyde, an alkylether sulfate and silicic acid	68891-38-3	1.52
Precipitated Silica (Silicon dioxide, 10 SiO <sub>2</sub> , 1 H <sub>2</sub> O) (Wessalon S or SIpernat 22 S or Silcasil S)	7631-86-9	1.44
Heteropolysaccharide (Xanthan gum) (Rhodopol 23)	11138-66-2	0.41
1,2-benzisothiazolin-3-one (20% solution in dipropylene glycol) (Proxel Gxl)....	2634-33-5	0.2
Silicone oil....	63148-58-3	0.14
5-chlor-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone (Preventol D7)	55965-84-9	0.08
Silicone oil emulsion (Rhodosil 426R)....	--	0.03
2-hydroxy-1,2,3-propanetricarboxylic acid monohydrate (Citric acid)....	5949-29-1	0.03
Sodium Dodecyl Sulphate.... (Agnique SLS 90 P)	151-21-3	0.01
Water	7732-18-5	78.188
<b>Total</b>	--	<b>100</b>

## 3. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment- Acute Hazard, Category 1 H400

Hazardous to the aquatic environment- Chronic Hazard, Category 1 H410

### Label elements

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

#### Hazard pictograms (CLP)



**Signal word (CLP):** Warning

**Hazard statements (CLP):** H410- Very toxic to aquatic life with long lasting effects

**Precautionary statements (CLP):** P273- Avoid release to environment

P391- Collect spillage

P501- Dispose of contents/ container to a hazardous or special waste collection point

P101- If medical advice is needed, have product container or label at hand

P102- Keep out of reach of children

P103- Read label before use

**EUH- statements:** EUH208- Contains 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) (55965-84-9), 1, 2-benzisothiazolin-3-one (2634-33-5). May produce an allergic reaction.

**Child-resistant fastening:** No

**Tactile warning:** No

## 4. FIRST AID MEASURES

### Description of first aid measures:

#### First- aid measures general

If swallowed, seek medical advice immediately and show this container or label.

#### First- aid measures after inhalation

Move the affected person to the fresh air. If not breathing, give artificial respiration. Call a doctor.

#### First aid measures after skin contact

Remove contaminated clothes. After contact with skin, wash immediately with plenty of water.

#### First-aid measures after eye contact

Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses

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and immediately take medical advice.

## **First- aid measures after ingestion**

Rinse mouth. Immediately call a POISON CENTER or doctor/ physician.

## **5. FIRE FIGHTING MEASURES**

### **Extinguishing media**

**Suitable extinguishing media:** Water spray. Dry powder. Foam. Carbon dioxide.

### **Special hazards arising from the substance or mixture**

**Fire hazard:** Carbon monoxide. Nitrogen oxides. Sulphur dioxide.

### **Advice for firefighters**

**Firefighting instructions:** Appropriate self contained breathing apparatus may be required.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures:**

#### **For non-emergency personnel:**

##### **Protective equipment :**

Wear suitable protective clothing, gloves and eye or face protection. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). EC EN 166 "3". Wear eye protection. Personal protective equipment. EN ISO 20345.

##### **Emergency Procedures**

Evacuate personnel to a safe area.

#### **For emergency responders**

**Protective equipment:** Wear suitable hand, body and head protection.

#### **Environmental precautions**

Danger of pollution of drinking water when product enters the soil. Do not allow run-off from fire-fighting to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

### **Methods and material for containment and cleaning up**

#### **For containment:**

Label the container and provide warning statements to prevent any contact.

#### **Methods for cleaning up:**

Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Clean spills promptly. Wash contaminated area with large amounts of water.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Additional hazards when processed :

Do not allow run-off from fire fighting to enter drains or water courses. Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

#### Precautions for safe handling :

Avoid contact with skin and eyes. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with soap and water before leaving work. Remove contaminated clothing and shoes. Wash clothing and equipment after handling.

#### Conditions for safe storage, including any incompatibilities

##### Technical measures:

Keep only in the original container in a cool well ventilated place. Store in a dry, cool area. Protect from light.

##### Storage conditions:

When not empty dispose of this container at hazardous or special waste collection point. Containers remain hazardous when empty. Continue to observe all precautions.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure controls

**Hand protection:** Chemical resistant gloves (according to European standard NF EN 374 or equivalent).

**Eye protection:** EC EN 166 "3". Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles

**Respiratory protection:** Extra personal protection: P2 filter respirator for harmful particles. Extra personal protection: P3 filter respirator for toxic particles

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance:** White Suspension

**Density at 20<sup>0</sup> C (kg/l):** 1.02

**Viscosity at 20<sup>0</sup>C (cps-LVD) :** 1000 cps

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under normal conditions.

**Chemical stability:** The product is stable at normal handling and storage conditions.

**Possibility of hazardous reactions:** None under normal conditions.

**Conditions to avoid:** Avoid high temperatures. Direct sunlight.

**Incompatible materials:** Not known

**Hazardous decomposition:** If the product is involved in a fire, it can release toxic chlorine gases.

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

**Acute toxicity**

**LD<sub>50</sub> (oral, rat):** 5000 mg/kg

**LD<sub>50</sub> (dermal, rat):** >2000 mg/kg body weight

**LC<sub>50</sub> (inhalation, rat):** > 4.96 mg/L

**Skin irritation (rabbit):** moderate irritant to rabbit skin

**Eye irritation (rabbit):** mild irritant to the rabbit eye

**Skin sensitization (Guinea pig):** non sensitizer

**Germ cell mutagenicity:** not classified

**Carcinogenicity:** Not classified

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** Not classified

**Specific target organ toxicity (repeated exposure):** Not classified

**Aspiration hazard:** Not classified

## 12. ECOLOGICAL INFORMATION

### Toxicity

**LD<sub>50</sub> acute oral birds:** >4640 mg/kg mallard ducks (96 h)

**LC<sub>50</sub> fish :** 4.18 µg/L Common carp (*Cyprinus carpio*) (96 h)

**EC<sub>50</sub> alga:** 0.60 µg/mL and 9.77 µg/mL *Pseudokirchneriella subcapitata* (0-72 h)

**NOEC daphnia magna:** 0.010 µg/L (48 h)

**LOEC daphnia magna:** 0.018 µg/L (48 h)

**LD<sub>50</sub> contact bees :** 0.01 µg/bee for 24 and 48 h

**LD<sub>50</sub> oral bees :** 0.37 and 0.30 µg/bee for 24 and 48 h

**LC<sub>50</sub> worms:** >1290 mg/kg soil

### Persistence and degradability

**Persistence and degradability:** Not readily biodegradable.

### Bioaccumulative potential

**Log Pow:** >4.6

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Regional legislation (waste):** Disposal must be done according to official regulations.

## 14. TRANSPORT INFORMATION

### ADR/RID/ADN

**UN number:** 3082

**UN Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Transport hazard class(es):** 9

**Packing group:** III

**Environmental Hazardous:** Dangerous for environment: Yes

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## IMDG

**UN number:** 3082

**UN Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Transport hazard class(es):** 9

**Packing group:** III

**Environmental Hazardous:** Dangerous for environment: Yes

Marine pollutant : Yes

## IATA

**UN number:** 3082

**UN Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Transport hazard class(es):** 9

**Packing group:** III

**Environmental Hazardous:** Dangerous for environment: Yes

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

### EU- Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

**Other information, restriction and prohibition regulations:** according to Regulation (EU) No. 2015/830.

**National regulations :** Refer to protective measures listed in Sections 7 and 8

## 16. OTHER INFORMATION

Full text of H- and EUH-statements:

H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation

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H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
EUH208	Contains. May produce an allergic reaction