

Product Name: Resolve

Revision number: 002 (Repl. V2 01/08/19) Dated: 29/10/19

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

### 1.1 Product Identifier:

Product Name: Resolve

Product Number: L/RESOLUTE

1.2 Relevant Identified Uses: Turf wetting surfactant

1.3 Details of the Supplier of SDS:

Soil Biology Unit 30 Branbridges Industrial Estate, East

Peckham Kent TN12 5HF info@soilbiology.uk

1.4 Emergency Telephone Number:

+44 (0) 18921 251021- Normal hours are 09:00-16:30 Mon-Fri.

+44 (0) 07342 640 650 - Out of normal hours only.

#### **SECTION 2. HAZARDS IDENTIFICATION**

2.1 Classification of the substance of mixture according to Regulation (EC) No.1272/2008:

Physical hazards: None

Health hazards: None

Environmental hazards: None

2.2 Label elements:

Pictogram: None

Signal word: None

Hazard statements:

H code	Statement
	No H codes required

### Precautionary statements:

P code	Statement
P280	Wear protective gloves/clothing/eye
	protection/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses, if
	present and easy to do so

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Supplementary precautionary statements:

Code	Statement
P262	Do not get in eyes, on skin or on clothing
P271	Use only outdoors or in a well ventilated area

#### 2.3 Other hazards:

This product is not classified as PBT or vPvB according to current EU criteria.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS.

Substance	CAS Number	EC Number	%	Classification according to Regulation (EC) No 1278/2008 (CLP)
Oxirane, methyl-, polymer with oxirane	9003-11-6		>90	N/A
3-(Polyoxyethylene)	67674-67-3		<1	Acute Toxicity, Cat 4 H332
Propylheptamethyl				Serious Eye Damage, Cat.1 H318
trisiloxane				Chronic Aquatic Toxicity, Cat 2. H411
No ingredients require classification according to Regulation (EC) No 1278/2008 (CLP)				

### **SECTION 4. FIRST AID MEASURES**

## 4.1 Description of first aid measures:

- **4.1.1 Inhalation**: Move affected person to fresh air immediately. Keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
- **4.1.2 Skin Contact**: Rinse with plenty of water. Remove contaminated clothing and wash thoroughly with detergent before re-use. If irritation persists or worsens seek medical attention.
- **4.1.3 Eye Contact**: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
- **4.1.4 Ingestion**: Wash out mouth with water. Do not induce vomiting. If patient is conscious, give small amounts of water to drink. Seek medical attention.



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### 4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Inhalation: None known

4.2.2 Skin contact: None known

4.2.3 Eye contact: None Known

4.2.4 Ingestion: None known

### 4.3 Indication of any immediate medical attention and special treatment needed:

General information: None under normal use

### **SECTION 5. FIRE-FIGHTING MEASURES**

### 5.1 Extinguishing media:

Use an extinguishing agent suitable for the surrounding fire. Water spray, Foam (specifically trained personnel only), water fog (specifically trained personnel only), dry chemical powder.

### 5.2 Special hazards arising from the substance or mixture:

May give off fumes if heated to decomposition. Do not breathe fumes.

### **5.3** Advice for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers, Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. High risk of slipping due to leakage/spillage of product. Do not walk through spilt material.

### **6.2 Environmental precautions:**

Avoid pollution of sewers and watercourses.



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### 6.3 Methods and material for containment and cleaning up:

Contain and sweep up spillages. Place unusable material in clearly labelled containers or plastic bags for disposal. Wet residues are slippery, wash floors to remove all traces.

#### **SECTION 7. HANDLING AND STORAGE**

### 7.1 Precautions for safe handling:

Avoid spilling. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

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

Keep dry. Packs should be stored closed to avoid moisture ingress. Avoid prolonged contact with metals. Do not use food containers for storage due to risk of mistake.

Conditions of collocated storage:

Storage class 10 - 13 (Other liquids and solids)

Only substances of the same storage class should be stored together.

Collocated storage with the following substances is prohibited:

- Pharmaceuticals, foods, and animal feeds including additives.
- Infectious, radioactive and explosive substances.
- Strongly oxidizing substances of storage class 5.1A.

**7.3 Specific end uses:** For use only as a horticultural fertiliser.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters:

N/A

## 8.2 Exposure Controls:

Protective equipment	Dust mask with minimum protection factor of 10 with HSE type approval
•	Nitrile gloves may be worn for personal hygiene purposes
	Wear coverall and rubber boots when dealing with bulk spillages
	Face shield to protect from spray/vapour

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Appropriate	Provide adequate ventilation
Engineering	Avoid inhalation of spray/vapours
controls	Observe any occupational exposure limits for the product
	Mechanical ventilation or local exhaust ventilation may be
	required
Eye/face	Wear tight-fitting chemical splash goggles or face shield
protection	Personal protective equipment for eye and face protection
	should comply with European Standard EN166
Hand protection	Chemical resistant, impervious gloves complying with an
	approved standard should be worn if a risk assessment indicates
	skin contact is possible. To protect hands from chemicals gloves
	should comply with European Standard EN374. 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	Provide eyewash station and safety shower. Wear appropriate
body protection	clothing to prevent skin contact
Hygiene	Do not smoke in work area. Wash hands at the end of each work
measures	shift and before eating, smoking and using the toilet. Wash
	promptly if skin becomes contaminated. Promptly remove any
	clothing that becomes contaminated. When using do not eat,
	drink or smoke
Respiratory	Respiratory protection must be used if the airborne
protection	contamination exceeds the recommended exposure limit. If
	ventilation is inadequate, suitable respiratory protection must
	be worn. Wear a respirator fitted with the following cartridge:
	Particulate filter, type P2. Particulate filters should comply with
	European Standard EN143. Disposable filtering half-mask
	respirators should comply with European Standard EN149 or
	EN405

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	Liquid
Colour	Colourless to yellowish
Odour	Product specific
Odour threshold	Not determined
pH value	N/A
Initial freezing point (°C)	N/A
Initial boiling point and	N/A



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boiling range(°C)	
Flash point	N/A
Flammability(solid)	Product is non-flammable
Ignition temperature(°C)	N/A
Decomposition temperature(°C)	N/A
Self-flammability(°C)	Product is not self-igniting
Danger of explosion(°C)	Not explosive
Vapour pressure	N/A
Bulk density	N/A
Vapour density	N/A
Evaporation rate	N/A
Solubility in water at 20°C	Soluble in water
Miscibility with water	Partly miscible/hygroscopic
Partition coefficient(n-	N/A
octanol/water)	
Viscosity dynamic at 20 °C	N/A

## **SECTION 10.STABILITY AND REACTIVITY**

## 10.1 Reactivity:

Stable product under recommended storage and handling conditions.

### 10.2 Chemical stability:

Stable product under recommended storage and handling conditions.

### 10.3 Possible hazardous reactions:

Stable under recommended storage and handling conditions.

## 10.4 Conditions to avoid:

Avoid humidity

## 10.5 Incompatible materials:

Strong acids, strong oxidising agents, strong bases, halogens, reactive chemicals, atmospheric pressure.

# 10.6 Hazardous decomposition products:

None when stored and handled as prescribed/indicated.



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### **SECTION 11. TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects:

Acute toxicity	Based on available data the classification criteria are not met
Skin corrosion/irritation	Based on available data the classification criteria are not met
Serious eye	Based on available data the classification criteria are not met
damage/irritation	
Respiratory or skin	Based on available data the classification criteria are not met
sensitisation	
Germ cell mutagenicity	Based on available data the classification criteria are not met
Carcino genicity	Based on available data the classification criteria are not met
Reproductive toxicity	Based on available data the classification criteria are not met
STOT-single exposure	Based on available data the classification criteria are not met
STOT-repeated	Based on available data the classification criteria are not met
exposure	
Aspiration hazard	Not applicable
Inhalation	Based on available data the classification criteria are not met
Ingestion	May cause discomfort if swallowed
Likely routes of	Contact with skin and eyes. Inhalation of spray/vapours
exposure	

### **SECTION 12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity:

Not toxic.

# 12.2 Persistence and degradability:

Product is biodegradable.

### 12.3 Bioaccumulative potential:

Product does not bioaccumulate.

# 12.4 Mobility in soil:

Not determined

### 12.5 Results of PBT and vPvB assessment:

Does not fulfil the criteria for classification as PBT or vPvB.

## 12.6 Other adverse effects:

None known.

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### **SECTION 13. DISPOSAL CONSIDERATION**

Product: The UK Environmental Protection (Duty of Care) Regulations (EP) and

amendments should be noted (United Kingdom)

Packaging: Uncontaminated packaging can be reused. Packs that cannot be cleaned

should be disposed of in the same manner as the contents.

### **SECTION 14. TRANSPORT INFORMATION**

This product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)

14.1 UN Number:

N/A

14.2 UN proper shipping name:

N/A

14.3 Transport hazard class(es):

No transport warning sign required.

14.4 Packing group:

N/A

14.5 Environmental hazards:

None

14.6 Special precaution for user:

N/A

14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC code:

N/A

### **SECTION 15. REGULATORY INFORMATION**

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

**EU** legislation

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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: Workplace Exposure Limits EH40.

German water classification WKG3

#### 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance by the supplier.

### **SECTION 16. OTHER INFORMATION**

#### Key literature references and sources for data:

http://gestis.itrust.de/nxt/gateway.dll/gestis\_en/000000.xml?f=templates&fn=default.htm&vid=gestiseng:sdbeng

https://echa.europa.eu/

http://www.chcs.org.uk/

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