

**Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product Identifier**

Product Name: Basilico  
Product Description: Suspension Concentrate  
  
Chemical description of active substance (s): 2-[4-(Methylsulfonyl)-2-nitrobenzoyl]cyclohexane-1,3-dione  
  
Chemical Family: HPPD Inhibitors  
GCPF code: SC (Suspension Concentrate)

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

Product Use: Agriculture – Herbicide

**1.3 Details of the supplier of the safety data sheet**

Company: Life Scientific Ltd,  
NovaUCD,  
Belfield Innovation Park  
Dublin 4  
Ireland  
Telephone: +353 (0) 1 2832024  
Fax: +353 (0) 1 2832026  
Web: www.lifescientific.com

**1.4 Emergency contact information**

In case of Emergency: [www.npis.org](http://www.npis.org)  
[www.nhsdirect.nhs.uk](http://www.nhsdirect.nhs.uk) - 0845 4647 or 111  
[www.nhs24.com](http://www.nhs24.com) - 08454 24 24 24

**Section 2. HAZARD IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) No. 1272/2008

Eye Irritation	Category 2	H319
Aquatic Acute	Category 1	H400
Aquatic Chronic	Category 1	H410

**2.2 Label Elements**

Labelling according to Regulation (EU) 1272/2008

Hazard Pictograms:



Signal Word:

Warning

**Hazard Phrases:**

H319 Causes serious eye irritation.  
 H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Phrases:**

P102 Keep out of reach of children.  
 P280 Wear eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and if they can be easily removed. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/attention  
 P391 Collect spillage.  
 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

**Other Phrases:**

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.  
 SP 1 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).

**2.3 Other Hazards**

Substance does/does not meet the criteria for vPvB according to regulation (EC) No 1907/2006, Annex III.

<b>Section 3. COMPOSITION / INFORMATION ON INGREDIENTS</b>
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**3.1 Substances**

No substances fulfil the criteria set out in Annex II, Part A of the REACH Regulation (EC) No 1907/2006.

**3.2 Mixtures**

Chemical Name	CAS	EC	Classification (Regulation (EC) No 1272/2008)	Concentration (% w/w)
Mesotriole	104206-82-8	-	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	9
Poly(oxy-1,2-ethanediyl), alphaisodecyl-omegahydroxy-	61827-42-7	-	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	20 – 30
1-octanol	111-87-5	203-917-6	Eye Irrit. 2; H319	5 – 10

<b>Section 4. FIRST AID MEASURES</b>
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**4.1 Description of first aid measures**

General information: Have the product container, label or Safety Data Sheet with you when calling the emergency number, a Poison Control Centre or physician, or going for treatment.

Inhalation: Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

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

Symptoms: None known.

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

Notes to physicians: There is no specific antidote available. Treat symptomatically.

## **Section 5. FIREFIGHTING MEASURES**

### **5.1 Extinguishing media**

For small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
For large fires: Use alcohol-resistant foam or water spray.

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

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.

### **5.3 Advice for firefighters**

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread fire.

## **Section 6. ACCIDENTAL RELEASE MEASURES**

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

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### **6.2 Environmental precautions**

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

### **6.3 Methods and materials for containment and cleaning up**

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, diatomaceous earth).  
For large amounts: Dike spillage. Pump off product. Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

### **6.4 Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## **Section 7. HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes. No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

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

Segregate from foods and animal feeds. Keep away from heat. Protect from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children.

### **7.3 Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 Control parameters

Component	Exposure Limit	Value Type	Source
Mesotrione	10mg/m <sup>3</sup>	8h TWA	Syngenta

### 8.2 Exposure controls

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

Respiratory protection: No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

Skin protection: No special protective equipment required. Select skin and body protection based on the physical job requirements.

Hand protection: Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.

Eye protection: If eye contact is a possibility, wear tight-fitting chemical safety goggles. Follow any site-specific eye protection policies.

Engineering measures: Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form: Liquid.  
Colour: Light Brown.  
Odour: Like Octanol.

#### Chemical properties

pH (at 20 °C): 2.2.  
Boiling point (°C): > 100°C.  
Melting point (°C): < - 5°C.  
Flash Point: 90°C Pensky-Martens c.c.  
Oxidising properties: Not Oxidising.  
Explosive properties: Not Explosive.  
Density (at 20 °C): 1.09 g/ml at 20°C  
Solubility in water: Miscible.

### 9.2 Other Information

None.

## Section 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No information available.

## 10.2 Chemical Stability

No information available.

## 10.3 Possibility of hazardous reactions

None known. Hazardous polymerisation does not occur. hazardous reactions if stored and handled as prescribed/indicated.

## 10.4 Conditions to avoid

No information available.

## 10.5 Incompatible material

No information available.

## 10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapours. decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

## Section 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

LD <sub>50</sub> oral rat:	>2000mg/kg.
LD <sub>50</sub> dermal rat:	>2000mg/kg.
Eye irritation rabbit:	Moderately irritating.
Skin irritation rabbit:	Not irritating.
Sensitisation guinea pig:	Not a skin sensitiser.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Developmental Toxicity:	Not teratogenic.
Reproductive Toxicity:	Not reprotoxic.

## Section 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

LC <sub>50</sub> <i>Cyprinus carpio</i> (96 h):	71mg/l.
EC <sub>50</sub> <i>Daphnia magna</i> (48 h):	49mg/l.
E <sub>b</sub> C <sub>50</sub> Green Algae (96 h):	72mg/l.
E <sub>r</sub> C <sub>50</sub> Green Algae (96 h):	>100mg/l.

### 12.2 Persistence and degradability

Persistent in water, not persistent in soil.

### 12.3 Bioaccumulative potential

Low potential for bioaccumulation.

### 12.4 Mobility in soil

Medium to high mobility in soil.

### 12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6 Other adverse effects

None.

## Section 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal procedures: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

## Section 14. TRANSPORT INFORMATION

### 14.1 UN Number

3082.

### 14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (MESOTRIONE).

### 14.3 Transport hazard class(es)

9.

### 14.4 Packing group

III.

### 14.5 Environmental hazards

Marine Pollutant.

### 14.6 Special precautions for user

None known.

### 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code

Not evaluated.

## Section 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

None.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on this mixture by the supplier.

## Section 16. OTHER INFORMATION

### Full list of relevant hazard and precautionary statements that were not given in full in sections 2 and 3.

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.

The information presented in this document is accurate to the best of our knowledge at the date of its publication. However, the information given is designed only as a guide for the methods of handling, storage, use, transportation and disposal of the product and is not considered a warranty or quality specification. Life Scientific Limited cannot be held responsible for any loss or damage resulting from the handling, storage, use or disposal of the product. The information contained in this document relates only to this specific product.

First Issuance: 30.03.2017  
Current Issuance: 30.03.2017