

MATERIAL SAFETY DATA SHEET

Product Name **OxyFlow**

PRODUCT PATENT No.: Rsa /Int.Patent AppNo: WO2011061596A3

SECTION: Product and Company Identification

PRODUCT NAME: OxyFlow

SYNONYMS: n/a

PRODUCT CODES: Rsa /Int.Patent AppNo: WO2011061596A3

MANUFACTURER: Bio Enforcement SA

DIVISION: n / a

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CHEMICAL NAME: Stabilized - OxyFlow

FAMILY: Plant Extract

CHEMICAL Herbal Extract

FORMULA: n/a

PREPARED BY: Makro Organics

SECTION 2: Composition Information and Ingredients

- HAZARDOUS INGREDIENTS None known.
- COMPONENTS All ingredients not precisely identified are proprietary.
- OSHA PEL: none
- ACGIH TLV: n/a
- DAFF Act 36 registration no.: exempt

SECTION 3: HAZARDS IDENTIFICATION EMERGENCY

OVERVIEW:

- Appearance: Light Caramel Colour Liquid
- Odour: No identifiable odour

POTENTIAL HEALTH EFFECTS

- EYES: Irritation may occur
- SKIN: Irritation may occur after contact for extended period
- INGESTION: Excessive ingestion may cause nausea or gastrointestinal discomfort
- INHALATION: n / a
- ACUTE AND CHRONIC HEALTH HAZARDS: None known.
- MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Irritant

CARCINOGENICITY

- OSHA: n/a
- IARC: n/a
- ACGIH: n/a
- OTHER: n/a
- NTP: n/a

SECTION 4: FIRST AID MEASURES

- **EYES:** Flush eyes thoroughly with running water for 10 minutes while keeping the eyelids wide open.
- **SKIN:** Wash the affected area thoroughly with soap and water. Clean Clothing. Irritation will last for limited time only (5 - 10 minutes).
- **INGESTION:** Thoroughly rinse mouth with water. Drink plenty of fluids. Slight gastrointestinal discomfort may occur
- **INHALATION:** n/a

SECTION 5: FIRE-FIGHTING MEASURES

- **SUITABLE EXTINGUISHING MEDIA:** any
- **EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:** none
- **SPECIAL EXPOSURE HAZARDS IN A FIRE:** none
- **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS** none
- **OTHER INFORMATION** none

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **PERSONAL PRECAUTIONS:** Follow protective measures provided in sections 5 and 8
- **Keep away materials and products which are incompatible with product specified in section 10**
- **ENVIRONMENTAL PRECAUTIONS:** Rinse spilled product to dilute areas of direct contact. The product will only benefit the natural environment if spilled.
- **METHODS FOR CLEAN UP:** Wear suitable clothing and protective equipment.Recover or mop up excess material and reuse wherever possible.Absorb unusable product with suitable material and dispose of in accordance with Section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

When handling this material ensure that workers stay away from equipment that is moving and/ or processing exposed material and avoid coming into contact with the product by wearing:

- Suitable gloves - Occupational protective gloves. Standard duty leather/pigskin, rubber or neoprene gloves are typically most appropriate.
- Full length protective trousers and shirts (or overalls).
- Suitable boots for the site.
- Suitable eye protection recommended practices for occupational eye protection. Low impact goggles with indirect ventilation.

Additional handling procedures should include:

- Limit exposure to the product.
- Wash any areas of the body that the product may have come into contact after exposure.
- Launder protective work clothes prior to re-use.
- Check the atmosphere regularly against the relevant exposure standards (Section 8).
- Apply the material using a suitable garden or horticultural instrument.

Conditions for Safe Storage

When storing this material:

- Store OxyFlow in a cool, dry environment.
- Ensure sufficient demarcation and signage to identify product.
- Bund the storage area.
- Keep in a dry place
- Keep away from direct sunlight
- Keep away from heat
- Keep away from incompatible products specified in section 10
- Keep only in the original container at temperature not exceeding 30 degree Celsius
- If stored under warmer temperatures the life span of the product decreases.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- ENGINEERING CONTROLS: n/a
- VENTILATION: n/a
- RESPIRATORY PROTECTION: none required
- EYE PROTECTION: ANSI approved safety glasses with side protection or goggles.
- SKIN PROTECTION: Wear suitable protective clothing
- HYGIENIC PRACTICES: Handle in accordance with good hygiene and safety practice.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
GENERAL INFORMATION**

- APPEARANCE: Light Caramel Coloured Liquid
- ODOR: No identifiable odour

IMPORTANT HEALTH SAFETY AND ENVIRONMENTAL INFORMATION

- pH: Range 6.5 - 7.5
- BOILING POINT: 100°C
- FLASH POINT: not applicable
- MELTING POINT:
- FLAMMABILITY not applicable (SOLID, GAS): non flammable
- EXPLOSIVE PROPERTIES: non-explosive
- VAPOR PRESSURE: not applicable
- VAPOR DENSITY: not applicable
- BULK DENSITY: n/a
- EVAPORATION RATE: not determined SOLUBILITY IN WATER: dispersible
- DECOMPOSITION
- TEMPERATURE: not applicable
- VISCOSITY: Equivalent to water
- SPECIFIC GRAVITY 1.01
- Irritant: Slight Irritant after lengthy exposure

SECTION 10: STABILITY AND REACTIVITY

- STABILITY: Stable under normal conditions of use.
- CONDITIONS TO AVOID: none
- INCOMPATIBILITY (MATERIAL TO AVOID): none
- HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: none known
- HAZARDOUS POLYMERIZATION: n/a
- CONDITIONS TO AVOID: heat and contamination of any kind

SECTION 11: TOXICOLOGICAL INFORMATION TOXICOLOGICAL DATA

- ACUTE ORAL TOXICITY: none known
- ACUTE INHALATION TOXICITY: none known
- ACUTE DERMAL IRRITATION: none known
- SKIN IRRITATION: Slight Irritation after lengthy exposure
- EYE IRRITATION: slight, if direct contact with eyes SENSITIZATION: none

CHRONIC TOXICITY:

- CHRONIC TOXICITY n/a
- CARCINOGENIC DESIGNATION: none known

SECTION 12: ECOLOGICAL INFORMATION ECOTOXICITY EFFECTS

- ACUTE TOXICITY: none
- MOBILITY: not applicable

- PERSISTENCE AND DEGRADABILITY: none known
- BIOACCUMULATIVE POTENTIAL: is not known to accumulate

SECTION 13: DISPOSAL CONSIDERATIONS

- WASTE TREATMENT: Dispose of within current local and national regulations. No special method required.
- PACKAGING TREATMENT: Consult local governmental regulations regarding the proper disposal of emptied containers.
- RCRA HAZARD CLASS: n/a

SECTION 14: TRANSPORT INFORMATION

ROAD TRANSPORTATION

- PROPER SHIPPING NAME: Chemicals not otherwise indexed (NOI) Non Hazardous
- HAZARD CLASS: Not Regulated
- ID NUMBER: n / a
- LABEL STATEMENT: none

WATER TRANSPORTATION

- PROPER SHIPPING NAME: Chemicals Not Otherwise Indexed (NOI) Not Hazardous
- HAZARD CLASS: Not Regulated
- ID NUMBER: n / a
- LABEL STATEMENT: none

AIR TRANSPORTATION

- PROPER SHIPPING NAME: Chemicals Not Otherwise Indexed (NOI) Not Hazardous
- HAZARD CLASS: Not Regulated
- ID NUMBER: n / a
- LABEL STATEMENT: none

SECTION 15: REGULATORY INFORMATION

Preparation does not contain ingredients listed as a dangerous substance in Annex 1 of the EEC directive 67/548.

SECTION 16: OTHER INFORMATION

KEEP OUT OF REACH OF CHILDREN

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