

# SAFETY DATA SHEET

## TIP-TOP (20:20:20)

Version date: 22/01/2016

### Section 1: Identification of the substance / mixture and of the company

Product name: TIP-TOP

Use of substance: Fertiliser.

Company name: Ecoculture Biosciences S.L  
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### Section 2: Hazards identification

#### 1. Classification of the substance or mixture:

Classification under CLP: Skin Corr. 1B: H314

Most important adverse effects: Causes severe skin burns and eye damage.

#### 2. Label elements:

Hazard statements:

H314: Causes severe skin burns and eye damage.

Signal words: Danger



Hazard pictograms: GHS05: Corrosion

Precautionary statements:

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance

### Section 3: Composition / information on ingredients

#### Hazardous ingredients:

Name	EINECS	CAS	CLP Classification	Percent
Ammonium nitrate	229-347-8	6484-52-2	Ox. Sol. 3: H272; Eye Irrit. 2: H319	1 - 10 %
Potassium hydroxide	1310-58-3			
BORIC ACID [1] BORIC ACID, CRUDE NATURAL, CONTAINING NOT MORE THAN 85% OF H3BO3 CALCD. BY DRY WEIGHT [2]	233-139-2 234-343-4	10043-35-3 11113-50	Repr. 1B: H360FD	< 1%

## Section 4: First aid measures

### 4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

- Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
- Eye contact:** Corneal burns may occur. May cause permanent damage.
- Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**4.3. Indication of any immediate medical attention and special treatment needed:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 1. Extinguishing media

This product is not flammable and does not support combustion. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 2. Special hazards arising from the substance or mixture

In combustion emits toxic fumes.

### 3. Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 1. Personal precautions, protective equipment and emergency procedures

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

### 3. Methods and material for containment and cleaning up

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 4. Reference to other sections: Refer to section 8 of SDS.

## Section 7: Handling and storage

### 1. Precautions for safe handling

Shake container well before use. Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Must only be kept in original packaging.

## Section 8: Exposure controls/personal protection

### 1. Control parameters

Workplace exposure limits: Potassium hydroxide, 15 min. STEL 2mg / m<sup>3</sup>

### 2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

## Section 9: Physical and chemical properties

State: Liquid

Colour: Green

Odour: Characteristic odour

Evaporation rate: Negligible

Solubility in water: Soluble

Viscosity: Viscous

Boiling point/range°C: > 95

Melting point/range°C: < 0

Flammability limits %: lower: n/a

upper: n/a

Flash point°C: >93

Relative density: 1.56 - 1.62

pH: 9

## Section 10: Stability and reactivity

1. **Reactivity:** Stable under recommended transport or storage conditions.
2. **Chemical stability:** Stable under normal conditions.
3. **Possibility of hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
4. **Conditions to avoid:** Heat.
5. **Incompatible materials**  
Materials to avoid: Oxidising agents. Acids.
6. **Hazardous decomposition products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

Ammonium nitrate RAT LD50 (oral) 2217 mg/kg  
Potassium hydroxide RAT LD50 (oral) 273 mg / kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.  
Eye contact: Corneal burns may occur. May cause permanent damage.  
Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.  
Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

1. **Toxicity:** Ecotoxicity values: No data available
2. **Persistence and degradability:** Biodegradable.
3. **Bioaccumulative potential:** No bioaccumulation potential.
4. **Mobility in soil:** Readily absorbed into soil.
5. **Results of PBT and vPvB assessment:** This substance is not identified as a PBT vPvB substance.
6. **Other adverse effects:** Negligible ecotoxicity

### Section 13: Disposal considerations

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Triple rinse and puncture the empty container.

Do not reuse the container for any purpose. Dispose of waste in accordance with local regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14: Transport information

ADR / RID - This product does not require a classification for transport.

IMDG / IMO -

IATA / ICAO -

### Section 15: Regulatory information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010

### Section 16: Other information

Phrases used in s.2 and s.3:

H272: May intensify fire; oxidiser.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

H360FD: May damage fertility. May damage the unborn child.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.