

1. IDENTIFICATION

PRODUCT IDENTIFIER: Tundra™

SYNONYM(S): Tundra™

CAS NUMBER: Not Applicable

DANGEROUS GOODS CLASS: Not Applicable

POISONS SCHEDULE: Not Applicable

HAZCHEM CODE: Not Applicable

ACTIVE CONSTITUENTS: Potassium <10% ; Phosphorous <8% ; Polypeptides <1%; Kelp extract <5%; Fulvic acid <2%; water (bal.)

USE: Tundra™ is concentrated liquid fertilizer. It is suitable for application to any plant and to the soil to improve plant viability and performance. Tundra™ is water soluble. It is compatible with a wide range of chemicals, including insecticides and fungicides. After dilution with water, apply via any spray system, trickle or drip system.

SUPPLIER IDENTIFICATION:

Impello Biosciences, Inc.
815 14th Street SW, Suite A160
Loveland, CO 80537

info@impellobio.com
www.impellobio.com

TELEPHONE: +1 720-772-9767, 8am – 4pm UTC-06

EMERGENCY: 911

2. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Brown opaque coloured liquid, may vary

BOILING POINT (760 mmHg): 100°C

CORROSIVITY: Non-Corrosive

EVAPORATION: With water loss product thickens

FLAMMABILITY: Non-Flammable

FLASH POINT (°C): Not Applicable

ODOUR: None

OXIDATION/REDUCTION: None

pH: 6.4

SOLUBILITY (% BY WT): +99%

SPECIFIC GRAVITY: 1.132 g/mL

STABILITY: Very stable under normal temperature and light conditions

3. HEALTH HAZARD INFORMATION

HEALTH HAZARD: Non-Toxic

4. FIRST-AID MEASURES

INHALATION: Not Applicable

EYE CONTACT: Irrigate with generous volumes of water. No injury should be expected. If irritation occurs seek medical attention.

SKIN CONTACT: Wash off with water as soon as is convenient. Follow normal, sensible hygiene practices.

INGESTION: Discomfort from swallowing large amounts may be alleviated by vomiting or drinking large volumes of water or milk. Swallowing small amounts usually require no treatment other than drinking generous volumes of water.

NOTES TO PHYSICIAN: Treat symptomatically

5. PRECAUTIONS FOR USE

PERSONAL PROTECTION: Maintain normal personal cleanliness and hygiene

VENTILATION: Natural air movement will remove mild smell

FLAMMABILITY: Non-Flammable

STORAGE: No special requirements

6. SAFE HANDLING INFORMATION

SPILLAGE: Wash and dilute with plenty of water and/or remove with a mop/sponge

CAUTION: Spillages can be slippery

DISPOSAL: Dispose of diluted wastes into a convenient soil location such as compost, garden beds and lawns or around plants.

STORAGE/TRANSPORT: Store in original container in cool, dark area. Avoid conditions of extreme temperatures. Prolonged exposure to direct sun light can damage ingredients and speeds settling of contents.

FIRE HAZARD: None

EXPLOSION HAZARD: None

OTHER INFORMATION: This product is biodegradable. All components can be used by plants and/or soil organisms.

UPDATED: 5 Jan, 2022

7. HANDLING AND STORAGE

SAFE HANDLING: Never handle product without appropriate personal protective equipment in accordance with Section 8. Avoid misting, splashing, and high pressure washing. Ensure good ventilation of the room when handling this product.

STORAGE: Keep container tightly closed in a cool, dry, well ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

APPROPRIATE ENGINEERING CONTROLS: Adequate ventilation required for dusty/misty conditions

EYE/FACE PROTECTION: Protective glasses or eye shield recommended

SKIN PROTECTION: Impermeable gloves recommended

RESPIRATORY PROTECTION: NIOSH approved respiratory protection recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION – APPEARANCE

FORM: Liquid

COLOR: Brown

ODOR: Strong

ODOR THRESHOLD: Not Determined

pH VALUE: 6.4

DANGER OF EXPLOSION: Product does not present an explosion hazard

10. STABILITY AND REACTIVITY

REACTIVITY: No further relevant information available.

CHEMICAL STABILITY: Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

HAZARDOUS REACTIONS: No dangerous reactions known.

CONDITIONS TO AVOID: No further relevant information available.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Eye contact, skin contact, ingestion, inhalation

SYMPTOMS:

Immediate: May cause irritation to the eyes, skin, mucus membranes, and the upper respiratory tract

Delayed: Not Available

Acute Toxicity: Not Available

Eye Irritation: May cause minor irritation

Skin Irritation: May cause minor irritation

Respiratory Irritation: May cause minor irritation

Sensitization towards product: There is no evidence of sensitizing potential

Germ cell mutagenicity: Not Available

Reproductive toxicity: Not expected to produce reproductive toxicity

Carcinogenicity: Not classified as a carcinogen by IARC, OSHA, or NTP

12. ECOLOGICAL INFORMATION

TOXICITY: Aquatic toxicity: No further relevant information available.

PERSISTENCE AND DEGRADABILITY: Easily biodegradable.

BIOACCUMULATIVE POTENTIAL: Product is not expected to bioaccumulate.

MOBILITY IN SOIL: No further relevant information is available.

ADDITIONAL ECOLOGICAL INFORMATION

General notes: Generally not hazardous to water.

RESULTS OF PBT AND VPVB ASSESSMENT

PBT: Not applicable **VPVB:** Not applicable

13. DISPOSAL CONSIDERATIONS

ADVICE ON DISPOSAL: Disposal in accordance with local regulations for hazardous or non-hazardous goods.

CONTAMINATED PACKAGING: Disposal in accordance with local regulations.

14. TRANSPORT INFORMATION

UN NUMBER: ADR, ADN, IMDG, IATA: Void

UN PROPER SHIPPING NAME: ADR, ADN, IMDG, IATA: Void

TRANSPORT HAZARD CLASS(ES): ADR, ADN, IMDG, IATA: Void

PACKING GROUP: ADR, IMDG, IATA: Void

ENVIRONMENTAL HAZARDS: Marine pollutant: No

SPECIAL PRECAUTIONS FOR USER: Not Applicable.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBCCODE: Not Applicable.

TRANSPORT/ADDITIONAL INFORMATION: Not dangerous according to the above specifications. UN "Model Regulation".

15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

- SARA

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor / manufacturer assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Vendor / manufacturer assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

LAST CHANGE TO SDS: 10 /30 /2025

Supersedes: April 2025

Reason: Supplier address update.

****END OF SDS****