

1. IDENTIFICATION

PRODUCT IDENTIFIER: Dune™

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
Special Plant Supplement to Enhance Cell Wall Strength and Promote Upright Stature of Plants

SUPPLIER IDENTIFICATION: Impello Biosciences, Inc.
815 14th Street SW, Suite A160
Loveland, CO 80537
(p) 720 772 9767
info@impellobio.com
www.impellobio.com

TELEPHONE: 720-772-9767 8am – 4pm MST

EMERGENCY: 911

2. HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: GHS-US Classification according to 29 CFR 1910.1200

SIGNAL WORD: Warning

HAZARD STATEMENTS: H303+H313 May be harmful if swallowed or in contact with skin.
H316 Causes mild skin irritation.
H320 Causes eye irritation.

PICTOGRAMS: None.

PRECAUTIONARY STATEMENT(S): P262 Do not get in eyes, on skin, or on clothing.
P264 Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear impervious gloves, protective clothing, and eye protection (goggles or full face shield).

DISPOSAL: Dispose of contents /container in accordance with state and local regulations

OTHER HAZARDS: None known

3. COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS NUMBER	% BY WEIGHT
Ortho Silicic Acid	1343-98-2	2.2%

4. FIRST-AID MEASURES

INHALATION: Prolonged contact may cause slight irritation. Supply fresh air immediately. Rinse mouth and nose with water. Contact a physician if breathing is difficult or otherwise necessary.

EYE CONTACT: This material may cause eye irritation. Remove contact lens if there. Rinse with plenty of lukewarm water, also under eyelids for fifteen minutes. If symptoms persist, call a physician.

SKIN CONTACT: May cause skin irritation. Wash affected area with plenty of soap and water. Remove contaminated clothing and footwear. Cover irritated area with calming salve. If symptoms persist, call a physician.

INGESTION: Irritation of the mouth, pharynx, esophagus and stomach can develop. Rinse mouth with water. If uneasy symptoms persist, call a physician. Induce vomiting only if advised by physician or poison control. Call poison control. Do not give anything by mouth if patient is unconscious.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY: Non-Flammable

SPECIAL REMARKS ON EXPLOSION HAZARDS: Substance can explode when wet and heated with magnesium.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, EMERGENCY PROCEDURES: Avoid contact with eyes and skin. Observe protective instructions (see Sections 7 and 8). Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not discharge into the drains/surface waters/ground water.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

SMALL SPILLS: Use appropriate tools to collect the spilled material in a convenient waste disposal container. Complete the cleaning by pouring water on the contaminated surface and disposing of the material as approved by the authorized local and state requirements.

LARGE SPILLS: Stop leak without causing any risk. Do not get water inside the container. Do not touch spilled material with bare hands. Use water spray to reduce product fumes, if any. Prevent entry into sewers, basements or confined areas; dike the area if required. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated area and allow disposal through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the SDS and with local authorities.

7. HANDLING AND STORAGE

SAFE HANDLING: Keep the product in a locked facility. Do not allow children and unauthorized persons to handle the product. Wear suitable clothing when handling the product. Avoid contact with eyes, skin, and mouth. Seek medical advice immediately when needed and share the label or container with physician.

STORAGE: Keep the container tightly closed and away from children. Store the product in a cool, well-ventilated place away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES: This product does not contain any hazardous substance with any occupational exposure limits established by regional specific authorized body.

ENGINEERING MEASURE: Ensure adequate ventilation, especially in confined area; provide adequate exhaust fans as required to ensure that workstation areas are devoid of any bad air or the airborne levels are below the acceptable norms. Provide relevant arrangements wherein the dust, if generated, is cleared as soon as possible. Ensure that the eyewash stations and safety showers are close to the workstations.

PERSONAL PROTECTION: Use gloves, safety goggles, protective clothing, protective respirators and other safety personal protection equipment. Ensure that the handler in case of large spills or leaks follows all safety guidelines.

PROTECTIVE AND HYGIENE MEASURES: At work, do not eat, drink or smoke. Keep away from food, drink and animal feed. Wash hands before breaks and at the end of workday. Provide an eye bath.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Light Yellow

ODOR: Mild Ammonia

pH: 11.58 of 1% aqueous solution at 23°C

DENSITY: 1.1386 g/ml at 20.1°C

SURFACE TENSION: 54.703 mN/m at 20°C (1 g/L of product)

EXPLOSIVE PROPERTY: Non-explosive when tested under thermal and mechanical methods

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal storage conditions

REACTIVITY: None known based on the available information

CONDITIONS TO AVOID: Incompatible products

CONDITIONS OF INSTABILITY: Moisture, strong oxidizing substances

CORROSIVITY: Not Available

POLYMERIZATION: Will not occur

REACTIVITY: Incompatible with hydrogen fluoride, Xenon hexafluoride, Oxygen difluoride and Chlorine trifluoride.

11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION TOXICITY (LC₅₀): >5.08 mg/L of Air

(no treatment related pathological findings were noted at the mean maximum achievable concentrations).

IRRITATION AND CORROSIVITY: No data available

SENSITIZING EFFECTS: No data available

SEVERE EFFECTS AFTER REPEATED OR PROLONGED EXPOSURE: No data available

CARCINOGENIC/MUTAGENIC/TOXIC EFFECTS FOR REPRODUCTION: No data available

12. ECOLOGICAL INFORMATION

ACUTE TOXICITY TO QUAIL (LC₅₀): >2000 mg/kg body weight

PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATIVE POTENTIAL: No data available

MOBILITY IN SOIL: No data available

OTHER ADVERSE EFFECTS: No data available

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

DOT (USA DEPARTMENT OF TRANSPORTATION): Not regulated as dangerous goods in the USA.

HARMONIZED TARIFF CODE (HTS): 3105.90.00.50

Canada (AIRS) 382499601000 secondary plant nutrient

15. REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCES CONTROL ACT): Ingredients are listed.

SARA (THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (specific toxic chemical listing): None of the ingredients are listed.

CALIFORNIA PROPOSITION 65: None of the chemicals are listed.

EPA (ENVIRONMENTAL PROTECTION AGENCY): None of the ingredients are listed.

WHMIS (CANADA): Not a controlled substance.

PRODUCT RELATED HAZARD INFORMATION: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials.

CHEMICAL SAFETY ASSESSMENT: The supplier has not carried out evaluation of chemical safety.

16. OTHER INFORMATION

Revision Date: 10/21/2025

Supersedes: 04/04/2025

GHS 2015 FORMAT

Reason: Supplier address update.

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of the company, it is the responsibility of the user to determine the conditions of safe use of this product. The information does not represent analytical specifications.

****END OF SDS****