

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

Issuing Date 02-May-2018 Revision date 16-Jul-2025 Revision Number 3

1. Identification

Product identifier

Product Name Avail T5 for Granular

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Fertilizer Enhancer/Additive For use on granular fertilizers

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Verdesian Life Sciences U.S., LLC 1001 Winstead Drive, Suite 480 Cary, NC 27513 United States

Telephone: 1-800-868-6446

E-mail sds@vlsci.com

Emergency telephone number

Emergency Telephone INFOTRAC 1-800-535-5053 (North America)

INFOTRAC +1-352-323-3500 (International)

2. Hazard(s) identification

Classification

Skin corrosion/irritation Category 2

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements



Warning

Hazard statements

Causes skin irritation.

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves.

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label).

IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%
Partial sodium salt of maleic-itaconic-methallyl	2222107-82-4	40 - 60
sulfonic-allyl sulfonic tetrapolymer		

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits This product, as supplied, contains materials that do not have reportable occupational

exposure limits or are not subject to the reporting requirements of the local jurisdiction.

Biological occupational exposure This product, as supplied, contains materials that do not have reportable biological exposure

limits limits or are not subject to the reporting requirements of the local jurisdiction.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be

None known

None known

None known

required.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Dark violet
Physical state Liquid
Color Dark violet

Odor (includes odor threshold) No information available

Property <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableNone knownBoiling point (or initial boiling point orNo data availableNone known

boiling range)

Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available

Flash point No data available None known
Autoignition temperature No data available None known
Decomposition temperature No data available None known
SADT (°C) No data available None known
pH 4.0 None known

pH (as aqueous solution) No data available None known No data available Kinematic viscosity None known No data available **Dynamic viscosity** None known Solubility No data available None known Water solubility No data available None known Partition coefficient n-octanol/water (log No data available None known

value)

Vapor pressure (includes evaporation rate)No data available

Evaporation rate

No data available

Density and/or relative density 1.24

Bulk density
No data available
Liquid Density
No data available

Relative vapor density

No data available

None known
Particle characteristics

No data available

None known

Particle Size No data available
Particle Size Distribution No data available

Other information

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoidNone known based on information supplied.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. May cause redness and tearing of the eyes.

Acute toxicity No information available.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

 ATEmix (oral)
 87,615.00 mg/kg

 ATEmix (dermal)
 29,559.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

 ATEmix (inhalation-dust/mist)
 99,999.00 mg/l

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationClassification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

No information available.

No information available.

No information available.

Reproductive toxicity

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Other adverse effects

No information available.

No information available.

No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

<u>DOT</u>

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. Regulatory information

Contact supplier for inventory compliance status

16. Other information

NFPAHealth hazards0Flammability0Instability0Special hazards-HMISHealth hazards0Flammability0Physical hazards0Personal protection

Key or legend to abbreviations and acronyms used in the safety data sheet

List may include phrases which are not applicable to this product

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ADN Agreement concerning the International Carriage of Dangerous Goods by Inland Waterwa (Europe) AIRC Agreement concerning the International Carriage of Dangerous Goods by Road (Europe) AIRC Australian Inventory of Industrial Chemicals ATE Acute Toxicity Estimate ASTM American Society for the Testing of Materials Bar Biological Reference Values for Chemical Compounds in the Work Area Biological exposure limits Bar Biological exposure limits BEL Biological exposure limits BOW Body weight Carcinogen, Multagen or Reproductive Toxicant DOT Department of Transportation (United States) DSL Domestic Substances List (Canada) EmS Emergency Schedule ENCS Existing and New Chemical Substances (Japan) EPA Environmental Protection Agency GHS Globally Harmonized System HMIS Hazardous Materials Identification System International Agency for Research on Cancer International Agency for Research on Cancer International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CAO International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk CAO International Maritime Dangerous Goods International Protection Association International Fire Protection Association No International Fire Protection Association No Diserved Adverse Effect Concentration No Deserved Adverse Effect Loading Rate NTP National Toxicology P	Legend	
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TCSI	Taiwan Chemical Substance Inventory	
TDG	Transport of Dangerous Goods (Canada)	
TSCA	Toxic Substances Control Act (United States)	
TWA	Time-Weighted Average	
UN	United Nations	
VOC	Volatile organic compounds	
vPvB	Very Persistent and Very Bioaccumulative	
vPvM	Very Persistent and Very Mobile	
As	Allergenic substance	
DS	Dermal Sensitizer	
Ot	Ototoxicant	
pOt	Ototoxicant - potential to cause hearing disorders	
PS	Photosensitizer	
RS	Respiratory Sensitizer	
S	Sensitizer	
poS	Sensitizer - capable of causing occupational asthma	
Sa	Simple asphyxiant	
Sd	Skin designation	
pSd	Skin designation - potential for cutaneous absorption	
Sdv	Skin designation - vacated	
Sk	Skin notation	
dSk	Skin notation - danger of cutaneous absorption	
pSk	Skin notation - potential for cutaneous absorption	

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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End of Safety Data Sheet