

SAFETY DATA SHEET

1. Identification

Product identifier

ASP83296 The Andersons Golf Products A-TEP Hi Mag Trace Element Package

Other means of identification

Product code

221000, 221001, 221003

Recommended use

Fertilizer.

Recommended restrictions

None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer/Supplier

Agrium Advanced Technologies

Address

2405 W. Vassar Road (M-15) Reese, MI. 48757

Contact person

EHS Department

Emergency

Transportation - 1 (800) 792-8311 Medical - 1 (877) 615-0015

Email

ehs@agriumat.com

2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Serious eye damage/eye irritation

Category 2A

Specific target organ toxicity, single exposure Category 2 (Central Nervous System)

(inhalation)

OSHA defined hazards

Not classified.

Label elements



Signal word

Warning

Hazard statement

Causes skin and eye irritation. May cause damage to organs (Central Nervous System) by

Precautionary statement

Prevention

Wash thoroughly after handling. Wear eye protection/face protection. Do not breathe dust. Do not

eat, drink or smoke when using this product.

Response

If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Call a POISON

CENTER/doctor.

Storage

Store locked up. Store away from incompatible materials.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Environmental hazards

Hazardous to the aquatic environment, acute

Category 2

hazard

Hazardous to the aquatic environment,

Category 2

long-term hazard

Supplemental information

Hazard symbol



Hazard statement

Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Avoid release to the environment.

Response

Collect spillage.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

ASP83296 The Andersons Golf Products A-TEP Hi Mag Trace Element Package 914680 Version #: 01 Revision date: - Issue date: 28-June-2013

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Magnesium oxide	1309-48-4	14	
Ferrous sulfate	7720-78-7	7	
Manganese sulfate	7785-87-7	6	
Calcium sulfate	7778-18-9	3	
Urea	57-13-6	3	
Trimanganese tetraoxide	1317-35-7	2	
Zinc oxide	1314-13-2	2	
Zinc sulfate	7733-02-0	1.45	
Dicopper oxide	1317-39-1	1	

4. First-aid measures

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing. Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open

eyelids wide apart. Get medical attention if symptoms persist.

Causes eye irritation. Central nervous system depression.

Ingestion Seek medical advice.

Most important

symptoms/effects, acute and

delayed

Indication of immediate Symptoms may be delayed.

medical attention and special treatment needed

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

None known.

Specific hazards arising from

the chemical

None known.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do it without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific methods Keep unnecessary personnel away.

Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

Methods and materials for containment and cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling

Use work methods which minimize dust production. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Calcium sulfate (CAS 7778-18-9)	PEL	5 mg/m3	Respirable fraction.
	(2.2)	15 mg/m3	Total dust.
Magnesium oxide (CAS 1309-48-4)	PEL	15 mg/m3	Total particulate.
Manganese sulfate (CAS 7785-87-7)	Ceiling	5 mg/m3	
Trimanganese tetraoxide (CAS 1317-35-7)	Ceiling	5 mg/m3	
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3 5 mg/m3 15 mg/m3	Fume. Respirable fraction. Total dust.
US. ACGIH Threshold Limit Values	•		
Components	Туре	Value	Form
Calcium sulfate (CAS	TWA	10 mg/m3	Inhalable fraction.
7778-18-9) Ferrous sulfate (CAS 7720-78-7)	TWA	1 mg/m3	
Magnesium oxide (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.
Manganese sulfate (CAS 7785-87-7)	TWA	0.2 mg/m3	
Trimanganese tetraoxide (CAS 1317-35-7)	TWA	0.2 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
		ue and Time Period (if specifi	cuj
Components Zinc oxide (CAS 1314-13-2)	Type Ceiling	Value 15 mg/m3	Form Dust.
Components	Type Ceiling	Value 15 mg/m3	Form
Components Zinc oxide (CAS 1314-13-2)	Type Ceiling	Value 15 mg/m3	Form
Components Zinc oxide (CAS 1314-13-2) US NIOSH Pocket Guide to Chemic	Type Ceiling cal Hazards: Recommended e	Value 15 mg/m3 exposure limit (REL) Value 5 mg/m3	Form Dust. Form Respirable.
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Appropriate engineering

Provide adequate ventilation.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Chemical resistant gloves are recommended.

Other

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure.

Contact chemical protective clothing manufacturer for specific information.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

Thermal hazards

Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Granular.

Physical state

Solid.

Form Color Granular.

Odor

Gray. Odorless.

Odor threshold

Not available.

рН

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

Not available.

range

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Non flammable.

Upper/lower flammability or explosive limits

Not available.

Flammability limit - lower (%)

Flammability limit - upper

Not available.

(%)

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Not available.

Partition coefficient

Not available.

(n-octanol/water) Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

10. Stability and reactivity

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Humidity. Contact with incompatible materials.

Incompatible materials

Strong oxidizing substances.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion

May cause discomfort if swallowed.

Inhalation

Dust may irritate respiratory system.

Skin contact

Dust may irritate skin.

Eye contact

Causes eye irritation.

Symptoms related to the physical, chemical and

Causes eye irritation. Central nervous system depression.

toxicological characteristics

Information on toxicological effects

Acute toxicity

Causes serious eye irritation.

Components

Species

Test Results

Ferrous sulfate (CAS 7720-78-7)

Acute

Oral

LD50

Rat

319 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

Dust may irritate skin.

Causes eye irritation.

irritation

Respiratory sensitization

Not classified.

Skin sensitization

Not a skin sensitizer.

Germ cell mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Specific target organ toxicity -

single exposure

May cause damage to organs (Central Nervous System) by inhalation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not classified.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Ferrous sulfate (CAS 772	20-78-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	6.15 - 9.26 mg/l, 48 hours
Fish	LC50	Carp (Cyprinus carpio)	0.56 mg/l, 96 hours
Manganese sulfate (CAS	7785-87-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7.09 - 9.36 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	24.3 - 38.9 mg/l, 96 hours
Zinc oxide (CAS 1314-13	-2)		
Aquatic			
Crustacea	LC50	Water flea (Daphnia magna)	0.098 mg/l, 48 Hours
Zinc sulfate (CAS 7733-0	2-0)		
Aquatic			
Crustacea	EC50	Rotifer (Philodina acuticornis)	0.3 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.162 mg/l, 96 hours

Persistence and degradability

None known.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Urea (CAS 57-13-6) -2.11

Mobility in soilNo data available.Mobility in generalNo data available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose in accordance with all applicable regulations.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN3077

UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (Zinc oxide)

Transport hazard class(es) 9
Subsidiary class(es) Packing group III

Special precautions for user Not available.

Special provisions 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Packaging exceptions 155
Packaging non bulk 213
Packaging bulk 240

IATA

UN number UN3077

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)

Transport hazard class(es) 9
Subsidiary class(es) Packaging group III
Environmental hazards Yes
Labels required 3
ERG Code 9L

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IMDG

UN number UN3077

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Transport hazard class(es) 9
Subsidiary class(es) Packaging group III
Environmental hazards

Marine pollutant Yes
Labels required 3
EmS F-A, S-F

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Dicopper oxide (CAS 1317-39-1)

Ferrous sulfate (CAS 7720-78-7)

Manganese sulfate (CAS 7785-87-7)

LISTED

Trimanganese tetraoxide (CAS 1317-35-7)

LISTED

Zinc oxide (CAS 1314-13-2)

LISTED

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous

Yes

chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese sulfate (CAS 7785-87-7) Trimanganese tetraoxide (CAS 1317-35-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

US state regulations

US. Massachusetts RTK - Substance List

Calcium sulfate (CAS 7778-18-9) Ferrous sulfate (CAS 7720-78-7) Magnesium oxide (CAS 1309-48-4)

Trimanganese tetraoxide (CAS 1317-35-7)

Zinc oxide (CAS 1314-13-2) Zinc sulfate (CAS 7733-02-0)

US. New Jersey Worker and Community Right-to-Know Act

 Dicopper oxide (CAS 1317-39-1)
 500 lbs

 Manganese sulfate (CAS 7785-87-7)
 500 lbs

 Trimanganese tetraoxide (CAS 1317-35-7)
 500 lbs

 Zinc oxide (CAS 1314-13-2)
 500 lbs

 Zinc sulfate (CAS 7733-02-0)
 500 lbs

US. Pennsylvania RTK - Hazardous Substances

Calcium sulfate (CAS 7778-18-9)
Ferrous sulfate (CAS 7720-78-7)
Magnesium oxide (CAS 1309-48-4)
Trimanganese tetraoxide (CAS 1317-35-7)

Zinc oxide (CAS 1314-13-2)

Zinc sulfate (CAS 7733-02-0)

US. Rhode Island RTK

Dicopper oxide (CAS 1317-39-1) Manganese sulfate (CAS 7785-87-7) Trimanganese tetraoxide (CAS 1317-35-7)

Zinc oxide (CAS 1314-13-2) Zinc sulfate (CAS 7733-02-0)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

Country(s) or region Inventory name On inventory (yes/no)*

Japan Inventory of Existing and New Chemical Substances (ENCS)

Korea Existing Chemicals List (ECL)

Yes

Korea Existing Chemicals List (ECL) Yes

New Zealand New Zealand Inventory Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 28-June-2013

Revision date -

Version # 01

NFPA Ratings



References

C&L Inventory database.

Registry of Toxic Effects of Chemical Substances (RTECS)

HSDB® - Hazardous Substances Data Bank

Disclaimer

The information and recommendations contained in this Safety Data Sheet relate only to the specific material referred to herein (the "Material") and does not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date prepared. However, the information and recommendations are presented without warranty, representation or license of any kind, express or implied, with respect to its accuracy, correctness or completeness, and the seller. supplier and manufacturer of the Material and their respective affiliates disclaim all liability for reliance on such information and recommendations. This Data Sheet is not a quarantee of safety. A buyer or user of the Material (a "Recipient") is responsible for ensuring that it has all current information necessary to safely use the Material for its specific purpose, Furthermore, the Recipient assumes all risk in connection with the use of the Material. The Recipient assumes all responsibility for ensuring the Material is used in a safe manner in compliance with applicable environmental, health, safety and security laws, policies and guidelines. The Supplier does not warrant the merchantability of the Material or the fitness of the Material for any particular use and assumes no responsibility for injury or damage caused directly or indirectly by or related to the use of the Material.