

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

Hydrasmart
P.O Box 12706
ROANOKE, VA 24027

PRODUCT NAME: A-Tack Ultra
PRODUCT USE: Hydroseeding tacking agent and dust control agent

Date of Issue: 7/28/20

2. HAZARDS IDENTIFICATION SUMMARY

Hazard Classification: Acute Inhalation Category 4 H332

Signal Word: "WARNING"

Hazard Statements:

H332-Harmful if inhaled
H313-May be harmful in contact with skin

Precautionary Statements:

(PREVENTION)

P260-Do not breathe mist/vapors/spray
P264-Wash thoroughly after handling
P270-Do not eat, drink or smoke when using this product
P271-Use only outdoors in a well-ventilated area
P273-Avoid release to the environment
P280-Wear protective gloves / eye protection / face protection

(RESPONSE)

P301+P312- If swallowed, call a POISON CENTER or doctor if you feel unwell
P330-Rinse mouth
P302+P352-IF ON SKIN wash with plenty of soap and water
P305+P351+P338-IN IN EYES rinse cautiously with water for 20 minutes, remove contact lenses and continue rinsing
P337+P313-If eye irritation persists, get medical advice / attention
P362+P364-Take off contaminated clothing

Precautionary Statements, Storage:

P403+P233-Store in a well-ventilated place. Keep container tightly closed.
P501-Dispose of container in accordance with local regulations



3. COMPOSITION, INFORMATION ON INGREDIENTS

Proprietary blend of polyacrylamide, latex polymers, emulsifiers and blue marking dye.

4. FIRST AID MEASURES

If in eyes: Flush eyes with clean running water for at least 15 minutes. If irritation persists, get medical attention.

If on skin: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, or if rash develops, get medical attention.

If swallowed: If conscious, drink 1 or 2 glasses of water. Get medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

If inhaled: Remove to fresh air. If irritation persists, get medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): Not applicable

FLAMMABLE LIMITS (LFL & UFL): Not applicable

EXTINGUISHING MEDIA: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing mists. Absorb and sweep up spills immediately and transfer to suitable containers for possible land application according to label use or disposal. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Avoid breathing mists. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after using this product and before eating, drinking, chewing gum, using tobacco or using the toilet.

STORAGE: Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed, food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

US Workplace Exposure Level (ACGIH or AIHA) Guides: None known

EXPOSURE CONTROLS:

Eye / Face Protection: Goggles or shielded safety glasses are recommended

Skin Protection: Wear chemical-resistant gloves. Long-sleeved shirt, long pants, and socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipments such as MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue liquid

SOLUBILITY: Emulsifiable

pH: 6.0-6.5

BULK DENSITY: 8.19 lbs / gallon

SPECIFIC GRAVITY (Water = 1): 0.981

BOILING POINT: Not established

VAPOR PRESSURE: Not established

EVAPORATION RATE: Not established

PERCENT VOLATILE (by volume): Not applicable

FLASH POINT: >214 Degrees F

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Burning can produce carbon dioxide, carbon monoxide and oxides of silicon.

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀(rat): Not established

Acute Dermal LD₅₀(rabbit): Not Established

Eye Irritation (rabbit): Not established

Skin Irritation (rabbit): Not established

Inhalation LC₅₀(rat): Not established

Skin Sensitization (guinea pig): Not established

Carcinogenic Potential: None listed in OSHA, NTP, IARC, or ACGIH

12. ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

13. DISPOSAL CONSIDERATIONS

Do not reuse container. Rinse container thoroughly, adding rinsate to mixing tank. Then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by State and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Avoid contaminating water by disposal of equipment wash waters or other product wastes.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT.

U.S. Surface Freight Classification: Adhesives, Adjuvants, Spreaders or Stickers, NOI (NMFC 42652, CLASS 60)

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA		HMIS
1 Health	0 Least	1 Health
0 Flammability	1 Slight	0 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	H PPE
	4 Severe	

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N
Delayed N Reactive N

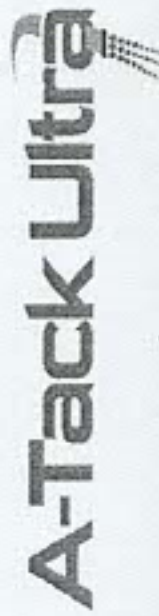
Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed

RCRA Waste Code: Not listed

16. OTHER

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material of process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Hydrasmart disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.



Revolutionary Tackifier & Dust Control Solution

HYDROSEEDING

Product	Active Ingredient	UOM	Cost / UOM	Rate & Cost Easy Slope	Rate & Cost Moderate Slope	Rate & Cost Steep Slope
A-Tack Ultra	4-way blend: Polyacrylamide, micro-emulsified latex polymers, co-block soil surfactant polymers, high concentrate blue dye	Gallon	\$ 40.00	2 Gallon \$80.00	2.5 Gallon \$100.00	5 Gallon \$200.00
Tacking Agent 3	3-way blend: Polyacrylamide, acrylamide co-polymer, marking dye	8 lb.	\$ 35.00	20 lbs. \$87.50	35 lbs. \$153.13	60 lbs. \$262.50
Traditional PAM	Polyacrylamide	10 lb.	\$ 92.00	10 lbs. \$92.00	15 lbs. \$138.00	25 lbs. \$230.00

A-Tack Ultra VS Competition:
Highest active ingredient polyacrylamide + additional micro-emulsified latex polymers (much stronger chemistry than polyacrylamide) + water holding soil surfactant + highest concentrated blue dye + a liquid solution for easier application

A-Tack Ultra VS Competition
8% to 24% less expensive

DUST CONTROL

Product	Active Ingredient	UOM	Cost / UOM	Rate / 3000 Gallon
A-Tack Ultra	4-way blend: Polyacrylamide, micro-emulsified latex polymers, co-block soil surfactant polymers, high concentrate blue dye	Gallon	\$ 40.00	5 Gallon \$200.00
Traditional PAM	Polyacrylamide	10 lb.	\$ 92.00	20 lbs. \$184.00

A-Tack Ultra VS Traditional PAM
Higher active ingredient polyacrylamide + additional micro-emulsified latex polymers (much stronger chemistry than polyacrylamide) + water holding soil surfactant + highest concentrated blue dye + a liquid solution for easier application.

A-Tack Ultra VS H30
8% more expensive

A-Tack Ultra

Revolutionary Dust Control & Tackifier

A-TACK ULTRA

4-way active ingredient combining the proven performance of polyacrylamides with proprietary micro-emulsified polymers, a moisture management soil surfactant, and a spray indicating blue dye. Rain-fast in 30 minutes, A-Tack Ultra represents the latest technology for the hydroseeding and dust control industries.

INGREDIENTS

Polyacrylamides
Micro-Emulsified Polymers
Soil Surfactant
Highly Concentrated Blue Dye

PACKAGING

2 x 2.5 Gallon
4 x 1 Gallon

APPLICATION RATES

Modest to 4H:1V Slope:

- 2.5 gallons / acre

>3H:1V Slope:

- 5 gallons / acre

Dust Control:

- 11 - 22 oz. / 100 gal
- 2.5 to 5 gallons / 3000

COMPANY INFORMATION

HydraSmart, Inc.
www.hydrasmart.net



A-Tack Ultra is a revolutionary formulation that combines traditional polyacrylamide and hydrocolloid technologies with advanced micro-emulsified polymers to provide a superior fiber-to-soil bond, reducing erosion, water-runoff, and significantly enhancing dust control. The addition of high technical grade 30-day soil surfactants hold water where needed during the early stages of germination. The high concentrated blue colorant allows the applicator to be precise with application, therefore reducing waste on the project.

Tank Loads	
300 Gallon	½ Gallon
500 Gallon	1 Gallon
900 Gallon	2.5 Gallon
1,500 Gallon	4 Gallon
3,000 Gallon	5 Gallon

For the Surface:

Micro-emulsified polymers: High active ingredient load of a latex-based 'sticker' that immediately and effectively adheres to the surface of applied area. This highly technical physical polymer significantly enhances the inherent tacking and dust control properties of A-Tack Ultra.

For the Soil:

PAM: Anionic, polyacrylamide-based superabsorbent polymers that retain large quantities of water and nutrients. Unlike most other PAM compounds that become hydrated, these compounds are able to release large quantities of water and nutrients consistently over periods of time.

For Water Management:

30-day soil surfactant ensures that adequate moisture is present in the soil to accelerate germination and survivability. Consists of multi-polymer technologies for stabilization and moisture management.

For Accuracy:

A highly concentrated blue spray pattern indicator aiding in the elimination of skips and overlaps (waste). Provides high visible evidence of where spray applications have been made for hydroseeding or dust control.

HydraSmart
Built for Hydroseeding

A-Tack Ultra HydraSmart

Tacking Agent – Dust Control

A-Tack Ultra is a revolutionary new formulation that combines polyacrylamide, hydro-colloid polymers with proprietary surfactants and a proprietary latex polymer. A blue colorant is added to aid in achieving even coverage. The combination of polyacrylamide and latex provides superior fiber-to-soil bond, helps reduce erosion and water runoff, and significantly reduces dust.

PRINCIPLE FUNCTIONING AGENTS:

Blend of polyacrylamide and latex polymers.....	45%
Surfactant.....	15%
TOTAL.....	100%

Application rates per acre:

- > Modest to 4H:1V Slope: 2.5 Gallons
- > 3H:1V Slope: 5.0 Gallons

Dust Control:

>11 to 22 oz. / 100 gallons H₂O (2.5 gal to 5.0 gal. / 3000 gal. H₂O)

Gallons *SHAKE WELL BEFORE USE*

Density: 8.2 lbs/Gallon @ 68°F Net Contents: 2.5 Gallons (9.46L) Net Weight: 20.5 lbs (9.3 KG)



**CAUTION: KEEP OUT OF
REACH OF CHILDREN**



HydraSmart

P.O. Box 12706, Roanoke, VA 24027