

Terra Novo, Inc.

ULTRATAACK

MATERIAL SAFETY DATA

Page 1 of 5
MSDS No: 19990
Date: 03/29/1999
Supersedes: 07/22/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **UltraTack tackifier and binding agent**

SYNONYMS: Anionic Polyacrylamide

CHEMICAL FAMILY: Anionic polyacrylamide powder.

MOLECULAR FORMULA: Polymer

MOLECULAR WGT: Polymer

Terra Novo, Inc., PO Box 81916, BAKERSFIELD, CA 93380, USA

For Product Information call 1-661-392-9771.

EMERGENCY PHONE: For emergency involving spill, leak, fire, exposure or accident call Terra Novo, Inc. at 1-888-843-1029:

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS

COMPONENT	CAS. NO.	%	TWA/CEILING	REFERENCE
No Permissible Exposure Limits (PEL/TLV) have been established by OSHA or ACGIH.				

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR: Off-white granular solid

STATEMENTS OF HAZARD:

IMPORTANT! SPILLS OF THIS PRODUCT ARE VERY SLIPPERY WHEN WET

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:

The acute oral (rat) and acute dermal (rabbit) LD50 values for this product are estimated to be greater than 2.5 g/kg and 10.0 g/kg, respectively. The 4-hour inhalation LC50 (rat) is estimated to be greater than 20 mg/L.

Direct contact with this material may cause minimal eye and skin irritation.

4. FIRST AID MEASURES

In case of skin contact, wash affected areas of skin with soap and water.

In case of eye contact, immediately irrigate with plenty of water for 15 minutes.

Material is not expected to be harmful if inhaled. If inhaled, remove to fresh air.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable
FLAMMABLE LIMITS: (% BY VOL): Not applicable
AUTOIGNITION TEMP: Not available
DECOMPOSITION TEMP: Not available

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

As with many solids, any dust that is generated may be explosive if mixed with air in critical proportions and in the presence of a source of ignition. Use water, carbon dioxide or dry chemical to extinguish fires. Wear self-contained, positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Spilled material becomes very slippery when wet. Sweep up spills and place in a waste disposal container. Flush the area thoroughly with water and scrub to remove residue. If slipperiness remains, apply more dry-sweeping compound. Do not flush large quantities of the material to sewer.

7. HANDLING AND STORAGE

Spills should be scooped up or wiped up immediately, and the spill area flushed with water. Maintain good housekeeping to control dust accumulations.
To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT (PPE)

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Off-white granular solid
BOILING POINT: Not applicable
MELTING POINT: Not applicable
VAPOR PRESSURE: Not applicable
SPECIFIC GRAVITY: 0.65-0.85
VAPOR DENSITY: Not applicable
% VOLATILE (BY WT): 7-12; (water)
pH: Not applicable
SATURATION IN AIR (% BY VOL): Not available
EVAPORATION RATE: Not applicable
SOLUBILITY IN WATER: Limited by viscosity

Terra Novo, Inc.

ULTRATAACK

MATERIAL SAFETY DATA

MSDS No: 19990

Page 3 of 5

Date: 03/29/1999

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known

POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, ammonia and/or oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION.

Toxicological information on the OSHA regulated components of this product is as follows:

This product contains no OSHA regulated (hazardous) components.

This product contains (a) chemical(s) known to the State of California to cause cancer.

12. ECOLOGICAL INFORMATION

Based on the results of 5-Day and 28-Day Biodegradability assays, degradation potential of this product is negligible. Chemical Oxygen Demand (COD): 0.38 mg O₂/mg.

OCTANOL/H₂O PARTITION COEF.: Not available

13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the Terra Novo, Inc. product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics." Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA "listed hazardous waste"; information contained in Section 15 of this MSDS is not intended to indicate if the product is a "listed hazardous waste." RCRA Hazardous Waste Characteristic. There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Terra Novo, Inc. encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Terra Novo, Inc. recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. Terra Novo, Inc. has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	D.O.T. SHIPPING INFORMATION	IMO SHIPPING INFORMATION
SHIPPING NAME:	Not applicable/Not regulated	Not applicable/Not regulated
HAZARD CLASS/ PACKING GROUP:	Not Applicable	Not Applicable
UN NUMBER:	Not Applicable	Not Applicable
IMDG PAGE:	Not Applicable	Not Applicable
D.O.T. HAZARDOUS SUBSTANCES:	(PRODUCT REPORTABLE QUANTITY) Not Applicable	Not Applicable
TRANSPORT LABEL REQUIRED:	None Required	None Required
	ICAO/IATA	TRANSPORT CANADA
SHIPPING NAME:	Not applicable/Not regulated	Not applicable/Not regulated
HAZARD CLASS: SUBSIDIARY CLASS:	Not Applicable	Not Applicable
UN / ID NUMBER: PACKING GROUP:	Not Applicable	Not Applicable
TRANSPORT LABEL REQUIRED:	None Required	None Required
PACKING INSTR:		
PASSENGER	Not Applicable	
CARGO	Not Applicable	Not Applicable
MAX NET QTY:		
PASSENGER	Not Applicable	
CARGO	Not Applicable	Not Applicable

ADDITIONAL TRANSPORT INFORMATION

TECHNICAL NAME (N.O.S.): Not Applicable

15. REGULATORY INFORMATION**INVENTORY INFORMATION**

US TSCA: This product is manufactured in compliance with all provisions of the Toxic Substance Control Act, 15 U.S.C. 2601 et. seq.

CANADA DSL: Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.

EEC EINECS: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.

OTHER ENVIRONMENTAL INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

COMPONENT: CAS. NO. % TPQ(lbs) RQ(lbs) S313 TSCA 12B

This product does not contain any components regulated under these sections of the EPA

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA

Not Applicable under SARA TITLE III

16. OTHER INFORMATION**NFPA HAZARD RATING (National Fire Protection Association)**

Fire

1

Health 0 0 Reactivity

Special

FIRE: Materials that must be preheated before ignition can occur.

HEALTH: Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material.

REACTIVITY: Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

REASON FOR ISSUE:

Revise Section 3

Prepared by:

S. Harrison

03/29/1999

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification. Before using any product, read its label.