TED PELLA, INC.
Microscopy Products for Science and Industry

Safety Data Sheet
Product No. 895-54, 895-55, 895-56, 895-57, 895-58, 895-59 Alumina Suspension, 0.05, 0.3, 0.5, 1.0, 3.0, 5.0 micron
Issue Date (02-12-15)
Review Date (06-26-15)

Section 1: Product and Company Identification
Product Name: Alumina Suspension, 0.05, 0.3, 0.5, 1.0, 3.0, 5.0 micron
Synonym: Alumina Slurry
Company Name
Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477
Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Hazard Identification

GHS Classification: Not a hazardous substance or mixture.

GHS Pictograms: None

Signal Word: None

Health Effects:
NFPA Hazard Rating: Health: 0; Fire: 0; Reactivity: 0
HMIS® Hazard Rating: Health: 0; Fire: 0; Reactivity: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Hazard Statements: None

Precautionary Statements:

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P337-P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to Federal, State, and Local Regulations.

Results of PBT and vPvB assessment: A chemical safety assessment has not been carried out.
PBT: ND
vPvB: ND

Emergency overview:
Appearance: White cloudy liquid solution.
Immediate effects: ND
Potential health effects
Primary Routes of entry: Inhalation at high temperatures, eye contact, skin contact.
Signs and Symptoms of Overexposure: Irritation.
Eyes: May cause irritation.
Skin: Repeated or prolonged skin contact may cause irritation.
Ingestion: May cause gastrointestinal irritation. Nausea and vomiting may occur.
Inhalation: Vapor and mist may irritate nose and throat. Prolonged inhalation may cause dizziness.
Chronic Exposure: ND
Chemical Listed As Carcinogen or Potential Carcinogen: No
See Toxicological Information (Section11)
Potential environmental effects
See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) **(Cas. No)**	**%**	**OSHA PEL mg/m3**	**ACGIH TLV mg/m3**	**NTP** Carcinogen	**IARC** Carcinogen	**OSHA regulated** Carcinogen
Alumina (1344-28-1)	10-30	10	10	No	No	No
Silicate Glass (7631-86-9)	0.6-1.0	6	10	No	No	No
Water (7732-16-5)	70-90	None	None	No	No	No

Section 4: First Aid Measures
If accidental overexposure is suspected
Eye(s) Contact: Flush thoroughly with water for at least 15 minutes. Get immediate medical attention.
Skin Contact: Remove contaminated clothing and shoes. Wash exposed area with soap and water. Get medical attention if symptoms persist.
Inhalation: No known harmful effects. If symptoms develop, remove affected person from source of exposure into fresh air. Get medical attention.
Ingestion: Get immediate medical attention. Do not induce vomiting unless instructed to do so by a physician. Give large quantities of water or milk.
Note to physician
Treatment: ND

Medical Conditions generally Aggravated by Exposure: Individuals with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of chemical.

Section 5: Fire Fighting Measures

Flash Point: NA
Flammable Limits: NA
Auto-ignition point:
Fire Extinguishing Media: CO2, Foam, Dry Chemical, And Water Spray.
Special Fire Fighting Procedures: Wear a NIOSH approved positive pressure self-contained breathing apparatus with full protective clothing. Do not release runoff from fire control methods to sewers or waterways. Fire may produce toxic thermal decomposition products. Wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.
Unusual Fire and Explosion Hazards: None.
Hazardous combustion products: Specific to type of material involved in fire.
DOT Class: Not regulated.

Section 6: Accidental Release Measures

Steps to be taken in Case Material is Released or Spilled:
Small spills: Isolate area and deny entry. Ventilate area of leak or spill. Small spill can be picked up with vermiculite or other absorbent, noncombustible material. Properly protected personnel should flush spill with plenty of water, taking care not to splash personnel.
Large spills: Notify appropriate personnel and implement facility emergency response plan. Evacuate nonessential personnel, and isolate area. Cleanup personnel should w3ear fully protective equipment for skin and eye contact.
Containment and cleanup: For large spills, dike far ahead of liquid spill for later disposal. Do not release directly into sewers or waterways. Wash walking surfaces thoroughly to reduce slipping hazard. Absorb spilled liquid with non-reactive absorbent material. Place clean-up material in appropriate disposal containers and dispose of according to local, state and federal requirements.
Waste Disposal Methods: Any release to the environment of this product may be subject to federal, state, and/or local reporting requirements. Check with appropriate agencies.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage: Exercise ordinary care in handling industrial lubricants. Avoid contamination of cigarettes or other tobacco products. Wash hands thoroughly before eating or smoking. Remove contaminated clothing and wash before reuse. Users should be alert to the possibility that very small percentages of the population may display unexpected allergic reactions to otherwise innocuous industrial lubricants or raw materials. Do not store in open or unlabeled containers. Store in well ventilated, properly drained / contained site, away from heat, out of the sun, and away from combustibles and reactive chemicals. Use only approved containers and protect containers from damage and keep material from freezing.
Storage temperature: Room temperature.

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Local ventilation is generally not necessary under normal conditions of use with adequate general ventilation. Ventilation and other forms of engineering controls are the preferred means for controlling chemical exposures.

Personal Protection Equipment

Respiratory protection: Avoid breathing in mist. Respiratory protection is generally not necessary under normal conditions of use with adequate general ventilation.
Protective gloves: Wear chemical protective gloves.
Skin protection: Avoid skin contact. Depending upon conditions of use, additional protection may be necessary such as a face shield, apron, etc.
Eye protection: Avoid eye contact. Wear safety glasses or chemical goggles in accordance with OSHA 29 CFR 1910.133.
Additional clothing and/or equipment: Make emergency eyewash stations, safety / quick-drench showers, and washing facilities available in work area.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: White cloudy liquid solution.
Odor (threshold): ND
Specific Gravity (H_2O=1): about 1.2 – 1.5
Vapor Pressure (mm Hg): Water
Vapor Density (air=1): NA
Percent Volatile by volume: 75-85%

Evaporation Rate (butyl acetate=1): Water
Boiling Point: 100° C (of water)
Melting point: 2000° C for powder
pH: 9-11
Solubility in Water: Soluble as slurry.
Molecular Weight: NA

Section 10: Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid: Strong acids and bases. Heat source.
Materials to Avoid (Incompatibility): Strong oxidizing materials, hypochlorites, chlorine.
Hazardous Decomposition Products: Steam, CO2, CO and unidentified organic compounds in fumes and smoke may be formed during combustion.
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed:

Eye effect: Avoid eye contact.
Skin effect: Practically non-irritating.
No other effects reported.
Human experience: ND
This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information
Ecological Information:
Eco-toxicity: NA
Soil Absorption/Mobility: Not available.
Degradability: Liquid portion is biodegradable.
Chemical Fate Information: Not available.

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: None.
Container Disposal: Rinse three times with an appropriate solvent or water. Dispose or recycle the empty container.
Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information
US DOT Information: Proper shipping name: Not regulated.
IATA: Proper shipping name: Not regulated.
Marine Pollutant: No
Canadian TDG: Not regulated.

Section 15: Regulatory Information
United States Federal Regulations
MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.
SARA: No ingredients listed.
SARA Title III: No ingredients listed.
RCRA: None listed.
TSCA: All components of this product are listed on the TSCA inventory.
CERCLA: No ingredients listed.
State Regulations
California Proposition 65: No ingredients listed.
International Regulations
Canada WHMIS: ND
Europe EINECS Numbers: ND

Section 16: Other Information
Label Information: ND
European Risk and Safety Phrases: ND
European symbols needed: ND
Canadian WHMIS Symbols: ND

Abbreviations used in this document
NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

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