

Material Safety Data Sheet

Document Number: 105-012i.04

Effective: 26-Aug 2014

Section I: Chemical Product and Company Identification

Manufacturer's Name :	Applied DNA Sciences, Inc.	Chemical Name & Synonyms:	Botanical encrypted taggant in water, acrylate based polymer, isopropanol, ethyl alcohol (denatured) and fluorophore.
Business Address :	50 Health Sciences Drive Stony Brook, New York 11790-3350 United States of America	Trade Names & Synonyms:	Botanical encrypted taggant in water, acrylate based polymer, isopropanol, ethyl alcohol (denatured) and fluorophore.
Business Phone:	1-631-240-8800	Chemical Family:	Acrylate Based Polymer Mixture
Emergency Phone:	1-631-240-8800	Email:	safety@adnas.com
Business Fax:	1-631-240-8900	Products:	527S and 527L

Section II: Composition / Information on Ingredients

Logo or Trademarks associated with this product or product family:



SigNature
the ultimate reality check

DNANET
tactical forensic systems

CAS#	Ingredient	% by Wt
64-17-5	Ethanol	30
Proprietary	Acrylate Based Polymer	12
67-63-0	2-Propanol	12
111-77-3	Methyl CARBITOL™	1.6
Proprietary	Fluorophore	1
N/A	Botanical Taggant	1 µg/kg

Section III: Hazardous Identification

Routes of Exposure

- Eye Contact:** Contact with the product, vapor or mist may cause irritation and redness.
- Inhalation:** Prolonged or repeated contact with the product, vapor or spray mist may cause irritation to the upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
- Skin Contact:** Prolonged or repeated contact with the product, vapor or mist may cause irritation.

Signs and Symptoms of Overexposure: Headache, dizziness, nausea, and loss of coordination are indication of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Section IV: First Aid Measures

- Eye Contact:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
- Ingestion:** Do not induce vomiting. **GET MEDICAL ATTENTION IMMEDIATELY.**
- Inhalation:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.
- Skin Contact:** Wash affected area thoroughly with soap and water.

Section V: Fire Fighting Measures

- Fire:** Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
- Explosion:** Information not available.
- Fire Extinguishing Media:** Carbon dioxide, Dry Chemical, Foam.
- Special Fire Fighting Measures:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

Section VI: Accidental Release Measures

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

Section VII: Handling and Storage

DOL Storage Class II

Precautions to be taken in handling and Storage: Contents are FLAMMABLE. Keep away from heat and open flame. Consult NFPA Code. Use approved Bonding and Grounding procedures. Keep container closed when not in use. Transfer only to "approved" containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

To minimize the possibility of spontaneous combustion: control the accumulation of overspray; soak wiping rags and waste immediately after use in a water-filled, closed metal container; air dry filters outside, far from any combustible material and separated by bricks or other non-combustible spacers; dispose of all contaminated materials and waste properly. Consult OSHA 29 CFR 1910.107 (b) (5) and NFPA 33, Chapter 8 (8-9) for the proper procedure.

Material Safety Data Sheet
Permanent Tactical UV Marker/Spray
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Section VIII: Exposure Controls / Personal Protection

Airborne Exposure Limits:	Use only with adequate ventilation system. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
Ventilation System:	Local exhaust is preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
Personal Respirators (NIOSH) Approved:	If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator by NIOSH/MSHA for dust which may be generated from this product, underlying pain, or the abrasive.
Skin Protection:	Wear protective gloves which are recommended by glove supplier for protection against materials in Section II.
Eye Protection:	Wear safety goggles with un-perforated side shields.
Other Precautions:	Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section IX: Physical Data and Chemical Properties

Appearance:	Off-white free flowing liquid	Boiling Point:	Not Available
Odor:	Alcohol or ether	Melting Point:	Not Available
Product Weight:	7.55 lb/gal 904 g/L	Flash Point:	Not Available
Specific Gravity:	0.98	Vapor Density: (Air=1)	Heavier than air
Evaporation Rate:	Slower than Ether	Physical Form:	Liquid
Solubility in Water:	Not Available	Vapor Pressure (mm in Hg)	Not Available

Volatile Organic Compounds (VOC Theoretical – As Packaged)

N/A	Less water and Federally Exempt Solvents	Percent Volatiles by Volume @ 21°C (70°F)	42%
N/A	Emitted VOC		

Section X: Stability and Reactivity

Stability:	No information available
Hazardous Decomposition Products:	By Fire: Carbon Dioxide, Carbon Monoxide
Hazardous Polymerization:	No information available
Incompatibilities:	No information available
Conditions to Avoid:	No information available

Section XI: Toxicological Information

CHRONIC HEALTH HAZARDS:

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Section XII: Ecological Information

Waste from this product may be hazardous as defined under the Resource, Conservation and Recovery Act (RCRA) 40 CFR 261.

Section XIII: Disposal Considerations

WASTE DISPOSAL METHOD:

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulation regarding pollution.

Section XIV: Transport Information

US Ground (DOT):	NOT Regulated
Bulk Containers may be Shipped as:	NOT Regulated
Canada (TDG):	NOT Regulated
IMO:	NOT Regulated

Section XV: Regulatory Information

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

Section XVI: Additional Information Section

	This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR) and the MSDS contains all of the information required by CPR		
Product Use:	Client specific application	Label Precautions:	Keep in tightly closed container
Revision Information:	Updated formatting		

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