



Safety Data Sheet (SDS)

Date Prepared/Revised: 12/28/19 Version no.: 02 Supersedes: (8/29/19)

1. Identification of the Mixture and of the Company

Product identifier: **Aervoe Livestock Marker – Twist-Style Markers**

Product name:

1781 Red
1782 Blue
1783 Green
1784 Orange
1785 Black
1786 Purple
1787 Flo. Pink

Relevant identified uses of the substance:

Uses advised against: Poorly ventilated areas

CAS No:	Not Applicable (mixture)
EC No:	Not Applicable (mixture)
Index No:	Not Applicable (mixture)
Manufacturer/Supplier:	Aervoe Industries Incorporated
Street address/P.O. Box:	1100 Mark Circle
Country ID/Postcode/Place:	Gardnerville, Nevada 89410
Telephone number:	1-775-782-0100
e-mail:	mailbox@aervoe.com
National contact:	Aervoe Industries Incorporated
For Product Information:	1-800-227-0196
Emergency telephone number:	1-800-424-9300 (CHEMTREC – 24 hrs) English Language Service

2. Hazards identification

Classifications

This product is an article as defined by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200). No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemicals. The classification below applies to the liquid ink in this marker.

This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labeling. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236

Physical Hazards: None

Health Hazards: None

Environmental Hazards: None



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Labeling

Signal Word: None

Hazard Statements: None

Precautionary Statements: None

Symbols/Pictograms: None

3. Composition / Information on Ingredients

Composition

Chemical	CAS Number	EC Number	Concentration, %
Linseed oil	8001-26-1	232-278-6	12
Castor oil	8001-79-4	232-293-8	12
Vaseline	8009-03-8	232-373-2	9
Paraffin	8002-74-2	232-315-6	6
Palm oil	8002-75-3	232-316-1	8
Fischer-Tropsch Wax	-	-	7
Beeswax	8006-40-4	-	5
Kaolin	8047-76-5	-	20
Calcium carbonate	471-34-1	207-439-9	13
Propofol	94-13-3	202-307-7	0.1
Paraben	94-26-8	202-318-7	0.1
Color pink 3132	-	-	7.8
Toner green blue G	-	-	6.3
Toner fast yellow 10G	-	-	0.6
Titanium dioxide	1317-80-2	215-282-2	0.9
Toner Blue BGS	-	-	6.5

Other Product Information

Chemical Identity: Mixture

4.) First Aid Measures

General Advice: Immediate medical attention is required. Show this safety datasheet (SDS) to the doctor in attendance. Ensure that medical personnel are aware of the substance involved, take precautions to protect themselves, and prevent spread of contamination

Inhalation First Aid: Under normal use conditions, no adverse effects will occur. If contact with decomposition products, irritation occurs. Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth



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Skin Contact First Aid: resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately. During production take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if irritation occurs.

Eye Contact First Aid: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if irritation occurs.

Ingestion First Aid: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Most Important Symptoms/Effects: Treat symptomatically.

5. Fire Fighting Measures

Flammable Properties: Non-flammable
Auto Ignition Temperature: Not Available
Suitable extinguishing media: misty water, alcohol-resistant foam, dry powder, carbon dioxide, and sand.
Unsuitable extinguishing media: Do not use a solid water stream as it may scatter or spread fire.
Special hazards arising from the substance or mixture: None known
Hazardous combustion products: Carbon dioxide, Carbon monoxide
Fire & Explosion Hazards: Product will not burn.
Precautions for fire-fighters:

1. As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2. Fight fire from a safe distance, with adequate cover.
3. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

1. Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
2. Ensure adequate ventilation. Remove all sources of ignition.
3. Evacuate personnel to safe areas. Keep people away from and up wind of spill/leak.
4. Use personal protective equipment. Avoid breathing vapors, mist, gas or dust.

6.2 Environmental precautions

1. Prevent further leakage or spillage if safe to do so.
2. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

1. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment

7. Handling and Storage

7.1 Precautions for handling



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1. Use in a well-ventilated area.
2. Operators must be specially trained to strictly abide by the operating procedures.
3. Keep away from fire, heat, and smoking in the workplace.
4. Use explosion-proof ventilation systems and equipment.
5. Avoid contact with oxidizing agents, reducing agents, and halogens.
6. Equipped with the corresponding variety and quantity of fire-fighting equipment.

7.2 Precautions for storage

1. Store in a cool, ventilated warehouse.
2. The temperature of the warehouse should not exceed 37°C, away from fire and heat.
3. It should be stored separately from oxidants, reducing agents, halogens, etc., and should not be mixed.
4. Use explosion-proof lighting and ventilation facilities.
5. Do not use mechanical equipment and tools that are prone to sparks.
6. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

8. Exposure Controls / Personal Protection

8.1 Control Parameters

8.1.1 Occupational exposure limits

Hazardous Ingredient	CAS Number	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.					

8.1.2 Biological limit values: No information available

8.1.3 Monitoring methods

1. EN 14042 Work place atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2. BZ/T160.1~GBZ/T 160.81-2004 Determination of toxic substances in work plac eair (Series standard) .

8.2 Engineering controls

1. Ensure adequate ventilation, especially in confined areas.
2. Ensure that eyewash stations and safety showers are close to the work station location.
3. Use explosion-proof electrical/ventilating/lighting/equipment.
4. Set up emergency exits and necessary risk-elimination area.

8.3 Personal protection equipment

General requirement :

Eye protection: Tightly fitting safety goggles (approved by EN166 (EU) or NIOSH (US)).

Hand protection: Wear protective gloves (such as butyl rubber) , passing the tests according to EN374 (EU), USF739 or AS/NZS2161.1 standard.



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Respiratory protection: If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN14387) respirator cartridges.

Skin and body protection: Wear fire/flamm resistant/retardant clothing and antistatic boots.

Other protection: Do not smoke, eat or drink on the job site. Maintain good hygiene habits.

9. Information on Basic Physical and Chemical Properties

Appearance: Color varies	Odor: Weak Odor
Odor Threshold: No data available	pH: 6-9
Melting Point: No data available	Freezing Point: No data available
Initial Boiling Point: No data available	Boiling Point Range: No data available
Flash Point: >70 °C / 158 °F (Closed Cup)	Evaporation Rate: No data available
Flammability Solid/Gas: Non-flammable	Upper LEL: No data available Lower LEL: No data available
Vapor Pressure: No data available	Vapor Density: No data available
Relative Density: No data available	Solubility: No data available
Partition Coefficient: n-octanol/ water: No data available	Auto-ignition Temperature: No data available
Decomposition Temperature: No data available	Viscosity: No data available
Explosive Properties: No data available	Oxidizing Properties: No data available

10. Stability & Reactivity

Reactivity: Contact with incompatible materials can cause decomposition or other chemical reactions.

Chemical stability: stable under the correct conditions of use and storage.

Possibility of hazardous reactions: Reacts violently with oxidants, causing a risk of combustion explosion.

Conditions to avoid: Electro static discharge, heat, humidity, etc.

Incompatible materials: Strong oxides, strong acids, strong bases.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure:	Eyes, skin, ingestion, and/or inhalation
Acute toxicological data:	Not Available
Eye irritation data:	Not Available
Skin irritation/sensitization/absorption data:	Not Available
Reproductive toxicity data:	Not Available
Mutagenicity data:	Not Available
Symptoms associated with physical contact:	Not Available
Acute/chronic effects from short/long	



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term exposure:	Not Available
Known reportable carcinogens via the following agencies:	
NTP:	Not Available
IARC:	Not Available
OSHA:	Not Available

12. Ecological Information

Ecotoxicity: **No Data Available**
 Persistence and degradability: **No Data Available**
 Bioaccumulative potential: **No Data Available**
 Mobility in soil: **No Data Available**
 Results of PBT and vPvB assessment: **No Data Available**
 Other adverse effects: **No Data Available**

13. Disposal Considerations

Disposal considerations: Recycle as much as possible. If it cannot be recycled, use incineration for disposal. Do not dispose of this product by means of discharge to the sewer.
 Waste chemicals: Contaminated packaging: Residual hazards may still exist after the contents of the packaging are emptied. Keep away from heat and sources of ignition. If possible, recycle them to the supplier for recycling. Disposal considerations: refer to the "Disposal" section.

14. Transportation Information

US DOT

UN Number	Proper Shipping Name	Hazard Class	Packing Group	Marine Pollutant	Special Provisions
Non Regulated Material	Non Regulated Material	Non Regulated Material	Non Regulated Material	Non Regulated Material	Reference 49 CFR 172.101

IMDG

UN Number	Proper Shipping Name	Hazard Class	Packing Group	Marine Pollutant	Special Provisions
Non Regulated Material	Non Regulated Material	Non Regulated Material	Non Regulated Material	Non Regulated Material	Reference 49 CFR 172.101

IATA:

UN Number	Proper Shipping Name	Hazard Class	Packing Group	Marine Pollutant	Special Provisions
Non Regulated Material	Non Regulated Material	Non Regulated Material	Non Regulated Material	Non Regulated Material	Reference 49 CFR 172.101

15. Regulatory Information



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Component	EINECS	TSCA	DSL	IECSC	NZIOC	PICCS	KECI	AICS
Linseed oil	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Castor oil	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Vaseline	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Paraffin	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Palm oil	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Fischer-Tropsch Wax	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beeswax	Not Listed	Not Listed	Not Listed	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Kaolin	Not Listed	Not Listed	Not Listed	Listed	Listed	Listed	Listed	Listed
Calcium carbonate	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Propofol	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Paraben	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Color Pink 3132	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toner green blue G	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toner Fast yellow 10G	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Titanium dioxide	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Toner Blue BGS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

[EINECS] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[ECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals [PICCS] Philippines Inventory of Chemicals and Chemical Substances



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16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

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To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.