Material Safety Data Sheet

Date Prepared/Revised: 4/4/2014 Version no.: 02 Supersedes: (11/30/2010)

1.) Identification of the Mixture and of the Company

Product identifier: Aervoe Survey Marking Paint - Aerosol

Product name: Survey Marking Paint

ERVOE

Non-Fluorescent	Fluorescent	16 oz. I.A.C.	High Delivery	Metallic
Colors	Colors			
201 Red	220 Red	261 Red	281 Red	210 Silver
202 Yellow	222 Orange	262 Yellow	282 Yellow	
203 Blue	224 Green	263 Blue	288 Fluorescent	
204 Green	226 Yellow	265 Orange	Orange	
205 Orange	227 Blue	267 White	-	
206 Black	229 Pink	270 Fluorescent Red		
207 White	230 Red/Orange	272 Fluorescent		
208 Hi Visibility		Orange		
Yellow		274 Fluorescent Green		
209 Light Blue		275 Fluorescent		
212 Purple		Red/Orange		
-		279 Fluorescent Pink		

Relevant identified uses of the substance: Designed to adhere to most surfaces, includ¬ing pavement, gravel, and soil.

Uses advised against: This aerosol product is designed to spray at an angle not greater than 30° from vertical. Do not use on turf surfaces.

CAS 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:	001 (0) 1-775-782-0100
e-mail:	mailbox@aervoe.com
National contact:	Aervoe industries Incorporated
For Product Information:	001 (0) 1-800-227-0196
Emergency telephone number:	001 (0) 1-800-424-9300 (CHEMTREC – 24 hrs)
	English Language Service

2. Hazards identification

This product does not meet the criteria for classification according to Directive 1999/45/EC Potential health effects: **See Section 11** Primary routes of entry: **Inhalation, Skin, Eyes, Ingestion**

3. Composition / Information on Ingredients

Material	CAS Number	EINECS Number	Weight Percent	Risk and Safety Phrases	Notes
Hydrocarbon Propellant	68476-86-8	270-705-8	10-30%	R12, R45, R46, S45, S53	



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Aliphatic Petroleum Distillates	64742-89-8	265-192- 2	10-30%	R45, R46, R65, S45, S53
Hexane	110-54-3	203-777-6	7-13%	R11, R20, R38, R48, R51, R53, R62, R65, R67, S2, S9, S16, S20, S22, S27, S61
Aliphatic Petroleum Distillates	64742-88-7	265-191-7	1-5%	S16, S29, S33, S37, S61 R65, S2, S23, S24, S62
Non-Flourescent Colors Also Contain:				
Acetone	67-64-1	200-662-2	7-13%	R11, R36, R66, R67, S2, S9, S16, S26
Metallic Colors Also Contain:				
Acetone	67-64-1	200-662-2	30-60%	R11, R36, R66, R67, S2, S9, S16, S26
n-Butyl Acetate	123-86-4	204-658-1	1-5%	R10, R66, R67, S2, S25
Aliphatic Hydrocarbon	64742-47-8	265-149-8	1-5%	R65, S2, S23, S24, S62

For full text of R&S- phrases: see section 16.

R Code Summation: R11, R12, R20, R36, R38, R45, R46, R48, R51, R53, R62, R65, R66, R67 S Code Summation: S2, S9, S16, S23, S24, S25, S26, S29, S33, ,S45, S53, S62

4.) First Aid Measures

General Advice:	If symptoms persist, always call a doctor.
Inhalation First Aid:	Remove victim to fresh air and provide oxygen if breathing is
	difficult. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.
Skin Contact First Aid:	Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before
	reuse.
Eye Contact First Aid:	If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention immediately.
Ingestion First Aid:	If swallowed, wash out mouth with water provided the person is conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire Fighting Measures

Flammable Properties:AerosolFlash Point:<0° F (-</td>Auto Ignition Temperature:Not AvaFlammable Limits in Air:%% by Volume:LEL: 1%Suitable extinguishing media:Carbon ofUnsuitable extinguishing media:None km

<0° F (-18° C) Not Available LEL: 1% UEL: 13% Carbon dioxide, dry chemical, water spray. None known



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Special hazards arising from the	
substance or mixture:	None known
Hazardous combustion products:	Carbon dioxide, Carbon monoxide
Fire & Explosion Hazards:	Closed Containers may rupture due to the buildup of pressure
	from extreme temperatures.
Advice for fire-fighters: Use water s	pray to cool containers exposed to heat or fire to prevent pressure
build up. In	the event of a fire, wear full protective clothing and NIOSH-
approved se	elf-contained breathing apparatus with full face piece operated in the
pressure de	mand or other positive pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES:

- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

SPILL CLEAN-UP PROCEDURES:

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

7. Handling and Storage

Flammable Aerosol, use in a well ventilated area. Do not use near sources of ignition. Store out of direct sunlight. Storage Temperature: 32° to 120°F (0° to 49°C) Do not to eat, drink and smoke while working with this material. Wash hands after use.

8. Exposure Controls / Personal Protection

Appropriate engineering controls:

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

Personal Protection:

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

Skin protection



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Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection:

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS Number	TWA	STEL
Hydrocarbon Propellant	68476-86-8	N/AV	N/AV
Aliphatic Petroleum Distillates	64742-89-8	300	N/AV
Hexane	110-54-3	50	N/AV
Acetone	67-64-1	500	750
n-Butyl Acetate	123-86-4	150	200
Aliphatic Hydrocarbon	64742-47-8	100	N/AV

9. Information on Basic Physical and Chemical Properties

Appearance: Opaque Liquid	Odor: Hydrocarbon odor
Odor Threshold: N/AV	pH: Not Applicale (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: <0° F (-18° C)	Evaporation Rate: Faster Than n-Butyl
	Acetate
Flammability Solid/Gas: Flammable gas	Upper LEL: 1% Lower LEL: 13%
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV

10. Stability & Reactivity

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

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

12. Ecological Information



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Toxicity: **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

Waste Disposal: Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

Product / Packaging disposal: Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

14. Transportation Information	
14. Transportation finormation	

US DOT

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Not
			Applicable	Applicable	Applicable

IMDG

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Not
			Applicable	Applicable	Applicable

IATA:

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not Applicable	Not Applicable	Not Applicable

15. Regulatory Information

Workplace classification:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

SARA Title 3:

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard. Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.



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WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR. **TSCA status:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

PROP 65 (CA): Warning: This product may contain chemicals know to the state of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

List of relevant Risk and Safety phrases:

R Phrases:

R11: Highly flammable

- R12: Extremely flammable
- R20: Harmful by inhalation
- R36: Irritating to eyes
- R38: Irritating to skin
- R45: May cause cancer
- R46: May cause heritable genetic damage
- R48: Danger of serious damage to health by prolonged exposure
- R51: Toxic to aquatic organisms
- R53: May cause long-term adverse effects in the aquatic environment
- R62: Possible risk of impaired fertility
- R65: Harmful: may cause lung damage if swallowed
- R66: Repeated exposure may cause skin dryness or cracking
- R67: Vapours may cause drowsiness and dizziness

S Phrases: S2: Keep out of the reach of children

- S9: Keep container in a well-ventilated place
- S16: Keep away from sources of ignition No smoking
- S24: Avoid contact with skin
- S23: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
- S25: Avoid contact with eyes
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S33: Take precautionary measures against static discharges
- SS45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
- S53: Avoid exposure obtain special instructions before use
- S62: If swallowed, do not induce vomiting seek medical advice immediately and show this container or label

National Fire Protection Association (NFPA) ratings

Health = 2 Flammability = 4 Reactivity = 1



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This SDS has been completed in accordance with Regulation (EC) No. 1907/2006

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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.