



Lilly Industries, Inc.

Material Safety Data Sheet

**1E1950G 4.3 VOC AIR DRY SEMI-GLOSS
BLACK ENAMEL**

MSDS No.

Not available.

1. Product and Company Identification

Product Trade Name	1E1950G 4.3 VOC AIR DRY SEMI-GLOSS BLACK ENAMEL	Validation Date	2 April 2001
Synonyms	1E1950G 4.3 VOC AIR DRY SEMI-GLOSS BLACK ENAMEL 1E1950G 4.3 VOC AIR DRY SEMI-GLOSS BLACK ENAMEL	Product Code	13-B125A
Chemical Family	Not available.	Internal Code	Not available.
Packaging	Not available.		
Product Type	Not available.		
Product Use	Not available.	Description	1E1950G 4.3 VOC AIR DRY SEMI-G 1E1950G 4.3 VOC AIR DRY SEMI-G
Manufactured/ Supplied	VALSPAR - MOLINE 5400 23RD AVE. MOLINE IL 61265 Daytime Phone: 309-762-7546 Emergency Phone: 800-424-9300		

2. Composition and Information on Hazardous Ingredients

Ingredient Name	CAS #	% by Weight	Exposure Limits	Vapor Pressure	LEL-UEL
1) ETHYLBENZENE	100-41-4	1.5-4	ACGIH (United States, 1994). TWA: 100 ppm ACGIH (United States, 1994). STEL: 125 ppm OSHA (United States, 1989). TWA: 100 ppm OSHA (United States, 1989). STEL: 125 ppm NIOSH (United States, 1994). TWA: 100 ppm NIOSH (United States, 1994). STEL: 125 ppm	0.9 kPa (7.1 mmHg) (@ 20°C)	Not available.
2) XYLENE ISOMERS	1330-20-7	8-13	ACGIH (United States, 1994). TWA: 100 ppm ACGIH (United States, 1996). STEL: 150 ppm OSHA (United States, 1989). TWA: 100 ppm OSHA (United States, 1989). STEL: 150 ppm	0.9 kPa (6.6 mmHg) (@ 20°C)	Not available.
3) TOLUENE	108-88-3	1.5-4	ACGIH (United States, 1996). Skin TWA: 50 ppm OSHA (United States, 1989). TWA: 100 ppm	2.9 kPa (22 mmHg) (@ 20°C)	1.4 %

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			OSHA (United States, 1989). STEL: 150 ppm OSHA (United States, 1989). CEIL: 300 ppm NIOSH (United States, 1994). TWA: 100 ppm NIOSH (United States, 1994). STEL: 150 ppm Supplier (United States). Skin TWA: 50 ppm Supplier (United States). Skin STEL: 75 ppm		
4) CALCIUM CARBONATE	1317-65-3	13-20	ACGIH (United States, 1994). TWA: 10 mg/m ³ OSHA (United States, 1989). Notes: Respirable TWA: 5 mg/m ³ NIOSH (United States, 1994). Notes: Respirable TWA: 5 mg/m ³	Not available.	Not available.
5) CARBON BLACK	1333-86-4	1.5-4	ACGIH (United States, 1994). TWA: 3.5 mg/m ³ OSHA (United States, 1989). TWA: 3.5 mg/m ³ NIOSH (United States, 1994). TWA: 3.5 mg/m ³	Not available.	Not available.
6) METHOXYPROPYLACETATE	108-65-6	1.5-4	Supplier (United States). Skin TWA: 30 ppm Supplier (United States). Skin STEL: 90 ppm	0.5 kPa (3.7 mmHg) (@ 20°C)	Not available.
7) METHYL PROPYL KETONE	107-87-9	1.5-4	ACGIH (United States, 1994). TWA: 200 ppm ACGIH (United States, 1994). STEL: 250 ppm OSHA (United States, 1989). TWA: 200 ppm OSHA (United States, 1989). STEL: 250 ppm NIOSH (United States, 1994). TWA: 150 ppm	3.7 kPa (27.8 mmHg) (@ 20°C)	Not available.
8) 2-PROPOXYETHANOL (GLYCOL ETHER)	2807-30-9	1.5-4		0.2 kPa (1.3 mmHg) (@ 20°C)	Not available.
9) AROMATIC NAPHTHA	64742-95-6	1.5-4		1.4 kPa (10.3 mmHg) (@ 20°C)	Not available.
10) TRIMETHYLBENZENE, 1,2,4 ISOMER	95-63-6	1-1.5	NIOSH (United States, 1994). TWA: 25 ppm	0.6 kPa (4.5 mmHg) (@ 20°C)	Not available.
11) 2-BUTOXYETHANOL (GLYCOL ETHER)	111-76-2	4-8	ACGIH (United States, 1994). Skin TWA: 25 ppm OSHA (United States, 1989). Skin TWA: 25 ppm	0.08 kPa (0.6 mmHg) (@ 20°C)	Not available.

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12) PETROLEUM DISTALLATE	8002-05-9	4-8	NIOSH (United States, 1994). Skin TWA: 5 ppm NIOSH (United States, 1994). TWA: 350 mg/m ³ NIOSH (United States, 1994). CEIL: 1800 mg/m ³	Not available.	Not available.
13) ALIPHATIC NAPHTHA	64742-89-8	4-8		2.7 kPa (20 mmHg) (@ 20°C)	Not available.
14) MINERAL SPIRITS 66	8052-41-3	1-1.5	ACGIH (United States, 1994). TWA: 100 ppm OSHA (United States, 1989). TWA: 100 ppm NIOSH (United States, 1994). TWA: 350 mg/m ³ NIOSH (United States, 1994). CEIL: 1800 mg/m ³	Not available.	Not available.

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

3. Hazards Identification

Primary Hazards and Critical Effects	: WARNING! CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: NERVOUS SYSTEM, SKIN, EYES, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA. FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION. POSSIBLE CANCER HAZARD CONTAINS MATERIAL WHICH MAY CAUSE CANCER BASED ON ANIMAL DATA. CONTAINS MATERIAL WHICH MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA. Risk of cancer depends on duration and level of exposure. Keep away from heat, sparks and flame. Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid exposure during pregnancy. Wash thoroughly after handling.
Physical/Chemical hazards	: Flammable.
Human Health Hazards	: Harmful by inhalation and in contact with skin. Irritating to respiratory system and skin. Possible risks of irreversible effects. May cause cancer.
Environmental Hazards	: Not applicable.

4. First Aid Measures

Eye contact	: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.
Skin contact	: Wash with soap and water. Remove contaminated clothing and shoes. If irritation persists, seek medical attention.
Inhalation	: Remove to fresh air. If not breathing, administer artificial respiration and seek medical attention.
Ingestion	: Wash out mouth with water if person is conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician. Seek immediate medical attention.

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5. Fire-Fighting Measures

- Extinguishing Media** : In case of fire, use water spray (fog), foam, dry chemical, or CO2. Use foam or all purpose dry chemicals to extinguish.
- Fire-Fighting Procedures** : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Fire/Explosion Hazards** : Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO2). Some metallic oxides.

6. Accidental Release Measures

- Personal Precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material.
- Environmental Precautions and Clean-up Methods** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Note: See section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and Storage

- Handling** : Risk of cancer depends on duration and level of exposure. Keep away from heat, sparks and flame. Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid exposure during pregnancy. Wash thoroughly after handling. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
- Packaging Materials** : Use original container.

8. Exposure Controls and Personal Protection

Occupational Exposure Limits

1) ETHYLBENZENE

ACGIH (United States, 1994).

TWA: 100 ppm

ACGIH (United States, 1994).

STEL: 125 ppm

OSHA (United States, 1989).

TWA: 100 ppm

OSHA (United States, 1989).

STEL: 125 ppm

NIOSH (United States, 1994).

TWA: 100 ppm

NIOSH (United States, 1994).

STEL: 125 ppm

2) XYLENE ISOMERS

ACGIH (United States, 1996).

TWA: 100 ppm

ACGIH (United States, 1996).

STEL: 150 ppm

OSHA (United States, 1989).

TWA: 100 ppm

OSHA (United States, 1989).

STEL: 150 ppm

3) TOLUENE

ACGIH (United States, 1996). Skin

TWA: 50 ppm

OSHA (United States, 1989).

TWA: 100 ppm

OSHA (United States, 1989).

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	STEL: 150 ppm OSHA (United States, 1989). CEIL: 300 ppm NIOSH (United States, 1994). TWA: 100 ppm NIOSH (United States, 1994). STEL: 150 ppm Supplier (United States). Skin TWA: 50 ppm Supplier (United States). Skin STEL: 75 ppm ACGIH (United States, 1994).
4) CALCIUM CARBONATE	TWA: 10 mg/m ³ OSHA (United States, 1989). Notes: Respirable TWA: 5 mg/m ³ NIOSH (United States, 1994). Notes: Respirable TWA: 5 mg/m ³ ACGIH (United States, 1994).
5) CARBON BLACK	TWA: 3.5 mg/m ³ OSHA (United States, 1989). TWA: 3.5 mg/m ³ NIOSH (United States, 1994). TWA: 3.5 mg/m ³ Supplier (United States). Skin TWA: 30 ppm Supplier (United States). Skin STEL: 90 ppm ACGIH (United States, 1994).
6) METHOXYPROPYLACETATE	TWA: 200 ppm ACGIH (United States, 1994). STEL: 250 ppm OSHA (United States, 1989). TWA: 200 ppm OSHA (United States, 1989). STEL: 250 ppm NIOSH (United States, 1994). TWA: 150 ppm
7) METHYL PROPYL KETONE	
8) 2-PROPOXYETHANOL(GLYCOL ETHER)	
9) AROMATIC NAPHTHA	
10) TRIMETHYLBENZENE,1,2,4 ISOMER	NIOSH (United States, 1994). TWA: 25 ppm ACGIH (United States, 1994). Skin TWA: 25 ppm OSHA (United States, 1989). Skin TWA: 25 ppm NIOSH (United States, 1994). Skin TWA: 5 ppm
11) 2-BUTOXYETHANOL (GLYCOL ETHER)	NIOSH (United States, 1994). TWA: 350 mg/m ³ NIOSH (United States, 1994). CEIL: 1800 mg/m ³
12) PETROLEUM DISTALLATE	
13) ALIPHATIC NAPHTHA	ACGIH (United States, 1994). TWA: 100 ppm OSHA (United States, 1989). TWA: 100 ppm NIOSH (United States, 1994). TWA: 350 mg/m ³ NIOSH (United States, 1994). CEIL: 1800 mg/m ³
14) MINERAL SPIRITS 66	

Engineering Controls

: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Monitoring Methods and
References**

: Not available.

Personal Protective Equipment

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- Respiratory System** : Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator. If necessary Be sure to use a MSHA/NIOSH approved respirator or equivalent.
- Skin and Body** : Wear appropriate protective clothing to prevent skin contact.
- Hands** : Use chemical resistant, impervious gloves. If necessary
- Eyes** : Safety goggles are considered minimum protection.

9. Physical and Chemical Properties

- Physical State and Appearance** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- pH** : Acidic.
- Molecular Weight** : Not applicable.
- Molecular Formula** : Not applicable.
- Melting Point** : May start to solidify at -26.0999°C (-15°F) based on data for: XYLENE ISOMERS. Weighted average: -59.62°C (-75.3°F)
- Boiling Point** : The lowest known value is 101°C (214°F) (METHYL PROPYL KETONE). Weighted average: 138.99°C (282.2°F)
- Evaporation Rate** : The highest known value is 10 (AROMATIC NAPHTHA) Weighted average: 1.46 compared to Butyl Acetate
- Volatility** : Not available.
- Vapor Density** : The highest known value is 5 (Air = 1) (METHOXYPROPYLACETATE). Weighted average: 3.94 (Air = 1)
- Vapor Pressure** : The highest known value is 28 mmHg (@ 20°C) (METHYL PROPYL KETONE). Weighted average: 9.83 mmHg (@ 20°C)
- Density** : Weighted average: 1.41 g/cm³
- Specific Gravity** : Weighted average: 1.13 (Water = 1)
- Solubility** : Soluble in cold water.
- Partition Coefficient (LogKow)** : Not available.
- Viscosity** : Not available.
- Auto-Ignition Temperature** : The lowest known value is 226°C (438.8°F) (PETROLEUM DISTALLATE).
- Flash Point** : CLOSED CUP: 30°C (86°F).
- Explosibility** : Not available.
- Explosion Limits** : The greatest known range is LOWER: 1.4% UPPER: 7.4% (TOLUENE)

10. Stability and Reactivity

- Stability** : The product is stable.
- Conditions and Materials to Avoid** : Slightly reactive to reactive with oxidizing agents.
- Hazardous Decomposition Products** : The products of degradation are less toxic than the product itself.
- Hazardous Polymerization** : Not available.

11. Toxicological Information

Toxicity Data

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
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1) ETHYLBENZENE	LD50	3500 mg/kg	Oral	Rat
2) XYLENE ISOMERS	LD50	4300 mg/kg	Oral	rat
	LD50	4300 mg/kg	Oral	mammal (species unspecified)
	LD50	>1700 mg/kg	Dermal	rabbit
	LDLo	50 mg/kg	Oral	human
3) TOLUENE	LD50	636 mg/kg	Oral	rat
	LDLo	50 mg/kg	Oral	human
4) CARBON BLACK	LD50	>15400 mg/kg	Oral	rat
5) METHOXYPROPYLACETATE	LD50	8532 mg/kg	Oral	rat
6) METHYL PROPYL KETONE	LD50	1600 mg/kg	Oral	rat
	LD50	3700 mg/kg	Oral	mammal (species unspecified)
	LD50	1600 mg/kg	Oral	mouse
	LD50	6500 mg/kg	Dermal	rabbit
7)	LD50	1774 mg/kg	Oral	Mouse
2-PROPOXYETHANOL(GLYCOL ETHER)	LD50	3089 mg/kg	Oral	Rat
8) 2-BUTOXYETHANOL (GLYCOL ETHER)	LD50	1230 mg/kg	Oral	Mouse
	LD50	470 mg/kg	Oral	Rat

Routes of Entry : Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Acute Effects

- Inhalation** : Harmful by inhalation. Moderately irritating to the respiratory system.
- Ingestion** : Harmful if swallowed.
- Skin Contact** : Harmful in contact with skin. Moderately irritating to the skin.
- Eye Contact** : Not available.

Chronic Effects

- Adverse Effects** : Not available.
- Target Organs** : Contains material which causes damage to the following organs: the nervous system, skin, eyes, central nervous system (CNS), eye, lens or cornea.
- Carcinogenic Effects** : Classified 2B (Possible for human.) by IARC [ETHYLBENZENE]. Classified + (Proven.) by NIOSH [CARBON BLACK]. Classified 2B (Possible for human.) by IARC [CARBON BLACK]. Classified None. by OSHA [CARBON BLACK]. Classified A4 (Not classifiable for human or animal.) by ACGIH [CARBON BLACK].
- Mutagenic Effects** : Not available.
- Developmental and Teratogenic Effects** : Not available.
- Reproductive Effects** : Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE] [TOLUENE].

Other Information

: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

12. Ecological Information

Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
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Our database contains no special consideration on the product

Environmental Hazards : No known significant effects or critical hazards.

Environmental Fate : Not available.

13. Disposal Consideration

Waste Classification : Not available.

Waste Handling and Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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14. Transport Information

United States

Shipping Description : Not available.
 Packaging Instruction : Not available.
 Special Provisions : Not available.
 Remarks : Not available.

Canada

Shipping Description : Not available.
 Regulated Limit : Not available.
 Consumer Commodity : Not available.
 Limited Quantity : Not available.
 Special Provisions : Not available.
 Remarks : Not available.

15. Regulatory Information

EU Regulations

Hazard Symbol(s) : T
 Risk Phrases : R10- Flammable.
 R20/21- Harmful by inhalation and in contact with skin.
 R37/38- Irritating to respiratory system and skin.
 R40- Possible risks of irreversible effects.
 R45- May cause cancer.
 Safety Phrases : S2- Keep out of the reach of children.
 S36- Wear suitable protective clothing.
 S46- If swallowed, seek medical advice immediately and show this container or label.
 S53- Avoid exposure - obtain special instructions before use.
 S64- If swallowed, rinse mouth with water (only if the person is conscious).

US Regulations

Federal and State Regulations : California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: TOLUENE
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: COBALT;
 CRYSTALLINE SILICA
 TSCA 12(b) one time export: N-BUTANOL; METHYLISOBUTYL KETONE; METHYL ETHYL KETOXIME
 This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.
 This information must be included in all MSDSs that are copied and distributed for this material.:
 XYLENE 10.6013%; MANGANESE NEODECANOATE 2-ETHYL HEXANOATE 0.217%; COBALT NEODECANOATE 0.35%; TOLUENE 2.6463%; 2-PROPOXYETHANOL (GLYCOL ETHER) 3.23113%; TRIMETHYLBENZENE, 1,2,4 ISOMER 1.08165%; 2-BUTOXYETHANOL (GLYCOL ETHER) 5.5%
 CERCLA: Hazardous substances.: XYLENE: 100 lbs. (45.36 kg); TOLUENE: 1000 lbs. (453.6 kg); 2-BUTOXYETHANOL (GLYCOL ETHER);
 Clean air act (CAA) 112 accidental release prevention: ETHYLBENZENE; XYLENE ISOMERS; TOLUENE.

HMIS (U.S.A.)

Health	*	2
Fire Hazard		3
Reactivity		0
Personal Protection		X

National Fire Protection Association (U.S.A.)



Consult your supervisor for special handling instructions.

Canadian Regulations

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WHMIS : CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
Class D-1B: Material causing immediate and serious toxic effects (TOXIC).
Class D-2A: Material causing other toxic effects (VERY TOXIC).

Canadian NPRI : Canadian NPRI: ETHYLBENZENE 1.80223%; XYLENE ISOMERS 8.7991%; TOLUENE 2.6463%;
TRIMETHYLBENZENE, 1,2,4 ISOMER 1.08165%; 2-BUTOXYETHANOL (GLYCOL ETHER) 5.5%

Provincial : No products were found.

16. Other Information

Remarks : Not available.

References : Not available.

Validated on 4/2/2001.

Version : 1.0

Date of Printing : 4/2/2001. **Date of Previous Issue** : No Previous Validation.

Indicates information that has changed from previously issued version.

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