

Silver 17178

1. Identification

1.1. Product identifier Product Identity Alternate Names

ECO-SURE A-A-2787 Industrial Enamel, Silver 17178

LHB Part Number: 01D4---160 National Stock Number: 8010-01-481-1135 CAGE Code: 0FTT5 Contract Number:

1.2. Relevant identified uses of the substance or mixture and uses advised against					
Intended use	See Product Label				
1.3. Details of the supplier of the safety data sheet					
Company Name LHB Industries					
	8833 Fleischer Place				
	Berkeley, MO 63134				
Emergency					
24 hour Emergency Telephone No. (800) 633-8253 (PERS)					

2. Hazard(s) identification

(314) 423-4333

2.1. Classification of the substance or mixture

Customer Service: LHB Industries

Flam. Aerosol 1;H222	Extremely flammable aerosol.
Press. Gas;H280	Contains gas under pressure; may explode if heated.
Flam. Liq. 2;H225	Highly Flammable liquid and vapor.
Eye Dam. 2A;H319	Causes serious eye irritation.
Muta. 1B;H340	May cause genetic defects.
Carc. 1B;H350	May cause cancer.
STOT SE 3;H336	May cause drowsiness or dizziness.
STOT RE 1;H372	Causes damage to organs through prolonged or repeated exposure. Specific Target Organs: (central nervous system)
Aquatic Chronic 3;H412	Harmful to aquatic life with long lasting effects.
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.



2.2. Label elements



H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

May displace oxygen and cause rapid suffocation.

Pressurized container: May burst if heated.

[Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, sparks, open flames, and other ignition sources - No smoking.

P211 Do not spray on an open flame or other ignition source.

P233 Keep container tightly closed.

P240 Ground, bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, light, equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, face protection.

[Response]:

P301+310 IF SWALLOWED: Immediately call a POISON CENTER, doctor or physician.

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+312 IF INHALED: Call a poison center or doctor or physician if you feel unwell.



P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice or attention.

P314 Get Medical advice or attention if you feel unwell.

P331 Do NOT induce vomiting.

P337+313 If eye irritation persists: Get medical advice or attention.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C , 122 °F.

[Disposal]:

P501 Dispose of contents or container in accordance with local and national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Acetone CAS Number: 0000067-64-1	33.01	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Propane CAS Number: 0000074-98-6	16.10	Flam. Gas 1;H220	[1][2]
Naphtha (petroleum), hydrotreated light CAS Number: 0064742-49-0	9.88	Asp. Tox. 1;H304 Muta. 1B;H340 Carc. 1B;H350	[1]
Butane CAS Number: 0000106-97-8	6.49	Flam. Gas 1;H220	[1][2]
N-Butyl Acetate CAS Number: 0000123-86-4	4.36	Flam. Liq. 3;H226 STOT SE 3;H336	[1][2]
Isobutane CAS Number: 0000075-28-5	4.33	Flam. Gas 1;H220 Press. Gas;H280	[1][2]
Aluminum powder (Al) (stabilized) CAS Number: 0007429-90-5	3.60	WaterReact. 2;H261	[1][2]
Stoddard solvent CAS Number: 0008052-41-3	3.33	STOT RE 1;H372 Asp. Tox. 1;H304	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance. *The full texts of the phrases are shown in Section 16.



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Section 4. First aid measures

4.1. Description of firs	t aid measures
General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
4.2. Most important sy	mptoms and effects, both acute and delayed
Overview	EFFECTS OF OVEREXPOSURE: Overexposure may result in light-headedness, staggering gait, giddiness, and possible nausea. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. May cause eye and skin irritation. SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure. MEDICAL CONDITIONS AGRAVATED BY EXPOSURE: Pre-existing respiratory, skin, and eye disorders. Reproductive or genetic defect hazard. Treat symptomatically. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
	Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. Check section 2.2 (GHS Label Elements) for further details.
Inhalation	May cause drowsiness or dizziness.
Eyes	Causes serious eye irritation.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray. Unsuitable extinguishing media: Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of Carbon

Keep away from heat, sparks, open flames, and other ignition sources - No smoking.



Do not spray on an open flame or other ignition source.

Keep container tightly closed.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, light, equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Pressurized container: Do not pierce or burn, even after use.

Avoid breathing dust, fume, gas, mist, vapors, spray.

Do not get in eyes, on skin, or on clothing.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. 126

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Store this product below 120°F, in a cool, dry, well ventilated area away from heat, sparks, flame, oxidizers and out of direct sunlight.

Incompatible materials: Strong acids and oxidizing materials

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:



7.3. Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

8.1. Control parameters

Exposure						
CAS No.	Ingredient	Source	Value			
0000067-64-1 Acetone	Acetone	OSHA	TWA 1000 ppm (2400 mg/m3) STEL 2400 mg/m3			
		ACGIH	TWA: 500 ppm STEL: 750 ppm			
		NIOSH	250 ppm (590 mg/m3) TWA			
0000074-98-6	Propane	OSHA	TWA 1000 ppm (1800 mg/m3)			
		ACGIH	Ensure Minimal Oxygen Content (ACGIH appendix F)			
		NIOSH	TWA 1000 ppm (1800 mg/m3)			
0000075-28-5	Isobutane	OSHA	No Established Limit			
		ACGIH	1000 ppm STEL (explosion hazard, listed under Butane, isomers)			
		NIOSH	TWA 800 ppm (1900 mg/m3)			
0000106-97-8	Butane	OSHA	No Established Limit			
		ACGIH	TWA: 600 ppm STEL: 750 ppm			
		NIOSH	TWA 800 ppm (1900 mg/m3)			
0000123-86-4 N-Butyl Acetate		OSHA	TWA 150 ppm (710 mg/m3			
		ACGIH	TWA: 150 ppm, STEL 200 ppm			
		NIOSH	TWA 150 ppm (710 mg/m3) ST 200 ppm (950 mg/m3)			
0007429-90-5	Aluminum powder (Al) (stabilized)	OSHA	TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)			
		ACGIH	TWA: 1.o mg/m3			
		NIOSH	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)			
0008052-41-3	Stoddard solvent	OSHA	TWA 500 ppm (2900 mg/m3)			
		ACGIH	TWA: 290 mg/m3 STEL: 580 mg/m3			
		NIOSH	TWA 350 mg/m3 C 1800 mg/m3 [15-minute]			
0064742-49-0	Naphtha (petroleum), hydrotreated light	OSHA	No Established Limit			
		ACGIH	No Established Limit			
		NIOSH	No Established Limit			

8.2. Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
Skin	Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to



maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.

Section 9. Physical and chemical properties

Appearance
Odor
Odor threshold
рН
Melting point / freezing point
Initial boiling point and boiling range
Flash Point
Evaporation rate (Ether = 1)
Flammability (solid, gas)
Upper/lower flammability or explosive limits
Vapor pressure (Pa)
Vapor Density
Relative Density
Solubility in Water
Partition coefficient n-octanol/water (Log Kow)
Auto-ignition temperature
Decomposition temperature
Viscosity (cSt)
VOC Content
Maximum Incremental Reactivity
HAPS (Ibs/gal)
HAPS (Ibs/gal of Solids)
HAPS (Ibs/Ib of Solids)
% Volatile (by volume)
9.2. Other information

Silver Liquid Solvent Not determined Not Determined Not Determined Not Determined -156°F (propane) Not Determined Not Applicable Lower Explosive Limit: Not Determined Upper Explosive Limit: Not Determined Not Determined Not Determined 0.749 Insoluble Not Measured Not Determined Not Determined Not Measured 540 g/L (4.51 lbs/gal) 0.64 Not Determined Not Determined Not Determined 90.20 % (by volume)

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.



10.2. Chemical stability
Stable under normal circumstances.
10.3. Possibility of hazardous reactions
No data available.
10.4. Conditions to avoid
Do not expose to heat or store at temperature above 120°F.
10.5. Incompatible materials
Strong acids and oxidizing materials
10.6. Hazardous decomposition products
Oxides of Carbon

Section 11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Acetone - (67-64-1)	5,800.00, Rat - Category: NA	7,426.00, Rabbit - Category: NA	76.00, Rat - Category: NA	50.10, Rat - Category: NA	No data available
Propane - (74-98-6)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Naphtha (petroleum), hydrotreated light - (64742-49-0)	> 5,000.00, Rat - Category: NA	>2,000.00, Rabbit - Category: 5	No data available	No data available	No data available
Butane - (106-97-8)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
N-Butyl Acetate - (123-86-4)	10,760.00, Rat - Category: NA	17,600.00, Rabbit - Category: NA	No data available	No data available	No data available
Isobutane - (75-28-5)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Aluminum powder (Al) (stabilized) - (7429-90-5)	>15,900.00, Rat - Category: NA	No data available	No data available	> 0.888, Rat - Category: NA	No data available



Stoddard solvent - (8052-41-3)	> 5,000.00, Rat	No data	No data	5.50, Rat -	No data
	- Category: NA	available	available	Category: NA	available
	INA				

Carcinogen Data

CAS No.	Ingredient	Source	Value					
0000067-64-1	Acetone	OSHA	Regulated Carcinogen: No					
		NTP	Known: No; Suspected: No					
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;					
		ACGIH	A4					
0000074-98-6	Propane	OSHA	Regulated Carcinogen: No					
		NTP	Known: No;	Suspected: No				
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;					
		ACGIH	No Establish	ed Limit				
0000075-28-5	Isobutane	OSHA	Regulated C	arcinogen: No				
		NTP	Known: No;	Suspected: No				
		IARC	Group 1: No	; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;				
		ACGIH	No Establish	ed Limit				
0000106-97-8	Butane	OSHA	Regulated C	arcinogen: No				
		NTP	Known: No;	Suspected: No				
		IARC		; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;				
		ACGIH	No Establish	ed Limit				
0000123-86-4	N-Butyl Acetate	OSHA	Regulated C	arcinogen: No				
		NTP		Suspected: No				
		IARC		; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;				
		ACGIH	No Established Limit					
0007429-90-5	Aluminum powder (Al) (stabilized)		Regulated Carcinogen: No					
		NTP		Suspected: No				
		IARC	Group 1: No	; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;				
		ACGIH	A4					
0008052-41-3	Stoddard solvent	OSHA		arcinogen: No				
		NTP		Suspected: No				
		IARC		; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;				
			No Establish					
0064742-49-0	Naphtha (petroleum), hydrotreated light	OSHA	_	arcinogen: No				
	light	NTP		Suspected: No				
		IARC		; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;				
		ACGIH	ACGIH No Established Limit					
Classification		Cat	tegory	Hazard Description				
Acute toxicity	r (oral)			Not Applicable				
Acute toxicity (dermal)				Not Applicable				
Acute toxicity	(inhalation)			Not Applicable				
Skin corrosio	n/irritation			Not Applicable				
Serious eye damage/irritation			2A	Causes serious eye irritation.				



Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity	1B	May cause genetic defects.
Carcinogenicity	1B	May cause cancer.
Reproductive toxicity		Not Applicable
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-single exposure		Not Applicable
STOT-repeated exposure	1	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard		Not Applicable

Section 12. Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l	
Acetone - (67-64-1)	8,120.00, Pimephales promelas	8,800.00, Daphnia pulex	7,000.00 (96 hr), Pseudokirchneriella subcapitata	
Propane - (74-98-6)	49.90, Fish	69.43, Daphnia sp	19.37 (72 hr), Algae	
Naphtha (petroleum), hydrotreated light - (64742-49- 0)	Not Available	2.60, Chaetogammarus marinus	Not Available	
Butane - (106-97-8)	49.90, Fish (Piscis)	69.43, Daphnia sp	19.37 (96 hr), Algae	
N-Butyl Acetate - (123-86-4)	18.00, Pimephales promelas	44.00, Daphnia sp	246.00 (72 hr), Pseudokirchnerella subcapitata	
Isobutane - (75-28-5)	Not Available	Not Available	Not Available	
Aluminum powder (AI) (stabilized) - (7429-90-5)	1.16, Pimephales promelas	0.72, Ceriodaphnia dubia	1.05 (72 hr), Pseudokirchnerella subcapitata	
Stoddard solvent - (8052-41-3)	Not Available	Not Available	Not Available	

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.



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Section 13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	UN1950, Aerosols, Limited Quantity, 2.1,	Aerosols, Limited Quantity	Aerosols, Limited Quantity
14.3. Transport hazard class(es)	DOT Hazard Class: 2.1	IMDG: 2.1 Sub Class: Not Applicable	Air Class: 2.1
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG Marine Pollutant: No;			
14.6. Special precautions for user			
Not	Applicable		

Section 15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Aluminum powder (Al) (stabilized)

Section 16. Other information

SDS Revision Date 04/14/2020

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.



The full text of the phrases appearing in section 3 is:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H261 In contact with water releases flammable gases.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

IMPORTANT NOTE: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user.

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