



## MATERIAL SAFETY DATA SHEET

*For Spraylat Liquid Coatings and Associated Liquid Materials*

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**Chemtrec**

### I. CHEMICAL PRODUCT IDENTIFICATION

Product Name : **B-4619 Mirror Brite Mirror Finish**

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Revision Number : 4  
Supercedes : 05/03/05

### II. COMPOSITION/INFORMATION ON INGREDIENTS - (EXPOSURE LIMITS - SEE SECTION VIII)

INGREDIENT NAME	CAS #	%
Methyl isobutyl ketone	108-10-1	75.01 - 100.00
Ethyl acetate	141-78-6	5.01 - 10.00
Aluminum	7429-90-5	1.01 - 5.00

If ingredient percentages do not total 100%, the balance is due to rounding or applies to ingredient(s) deemed nonhazardous under 29 CFR 1910.1200 (Hazard Communication Standard).

### III. HAZARDS IDENTIFICATION

	HMIS
<b>HEALTH</b>	2
<b>FLAMMABILITY</b>	3
<b>REACTIVITY</b>	0

0 = Least    1 = Slight    2 = Moderate    3 = High    4 = Extreme    \* = Chronic Health Effects

**Routes of Entry:**

Inhalation, Skin contact, Absorption, Eye contact, Ingestion.

**Medical Conditions Aggravated:**

Eye disease, Skin disease including eczema and sensitization, Kidney disease, Liver disease, Respiratory disease including asthma and bronchitis.

**Immediate (Acute) Health Effects:**

**Inhalation:**

Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Inhalation of high concentrations may result in central nervous system (CNS) depression, and in the production of methemoglobinemia, leading to cyanosis.

**Skin Contact:**

Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

**Eye Contact:**

Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

**Skin Absorption:**

Minimal hazard in normal industrial use. May cause gastrointestinal discomfort. A single exposure is not likely to result in the product being absorbed through the skin in harmful amounts.

<b>Ingestion:</b>	Harmful if swallowed. May cause systemic poisoning. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
<b>Target Organ Acute Toxicity:</b>	Eyes, Skin, CNS, Respiratory System, Kidneys, Liver, PNS.
<b><u>Long-Term (Chronic) Health Effects:</u></b>	
<b>Inhalation:</b>	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
<b>Skin Contact:</b>	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
<b>Eye Contact:</b>	Upon prolonged or repeated contact, can cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
<b>Skin Absorption</b>	Upon prolonged or repeated exposure, minimal hazard in normal industrial use. May cause gastrointestinal discomfort.
<b>Carcinogenicity:</b>	IARC: No                      NTP: No                      OSHA: No
<b>Target Organ Chronic Toxicity:</b>	Respiratory System, Nervous System, Eyes, Skin, Kidneys, Liver, PNS.  NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**IV. FIRST AID**

<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
<b>Eyes:</b>	Immediately flush eyes with plenty of luke warm water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.
<b>Skin Contact:</b>	Wash with soap and water. Get medical attention if irritation develops or persists. As a good general hygienic rule, if clothing comes in contact with the product, the clothing should be laundered before re-use.
<b>Ingestion:</b>	Seek medical advice immediately. Provide ingredients information from Section II of this MSDS to the medical care provider. Contact your local Poison Control Center (listed in the telephone book), or dial the local "Emergency" (911) number for additional information. Do not induce vomiting unless instructed to do so by a physician or other competent medical personnel. Never give anything by mouth to an unconscious person.

**V. FIRE FIGHTING MEASURES**

<b><u>Flammability Summary:</u></b>	
<b>Flash Point:</b>	<b>Extremely Flammable</b> -4 °C;                      25 °F
<b>Autoignition Temperature:</b>	427 °C;                      801 °F
<b>Fire Hazards:</b>	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back This product, when dried or cured, may support combustion when subjected to sources of ignition or heat in sufficient amount.
<b>Extinguishing Media:</b>	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.
<b>Fire Fighting Instructions:</b>	Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
<b>Hazardous Combustion Products:</b>	Carbon dioxide, Carbon monoxide.

**VI. ACCIDENTAL RELEASE MEASURES**

**Health Consideration for Spill Response:**

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including: the material spilled, the quantity of the spill, and the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

**Spill Mitigation Procedures:****General Methods:**

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. For liquid spills, dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Large spill (an uncontrolled release): Evacuate and summon professional help. If you have a trained spill response team, they should contain the liquids to minimize migration and vapor generation, and ventilate the area. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Avoid runoff into storm sewers and ditches that lead to waterways.

**Air Release:**

Ventilate the area by opening door and/or turning on fans and blowers.

**Water Release:**

Retain all contaminated water for treatment.

**Land Spills:**

Avoid runoff into storm sewers and ditches that lead to waterways.

**VII. HANDLING AND STORAGE****Handling:**

Harmful or irritating; avoid overexposure to the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Use spark-proof tools and explosion-proof equipment.

**Storage:**

Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed when not in use. Keep away from sources of ignition.

**VIII. ENGINEERING CONTROLS, PERSONAL PROTECTIVE EQUIPMENT, AND EXPOSURE LIMITS****Engineering Controls:**

Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure. Vapor concentrations should be monitored and controlled in accordance with 29 CFR 1910.1000.

**Protective Equipment:****Respiratory Tract:**

If general or local exhaust ventilation is not available or sufficient to reduce exposure to below acceptable levels, then respiratory protection is required to avoid overexposure when handling this product. Wear a NIOSH approved respirator if levels above the exposure limits are possible.

**Eyes:**

Wear safety glasses with side shields when handling this product. When the possibility exists for eye contact with splashing or spraying liquid, or airborne material, wear additional eye protection such as chemical splash goggles and/or face shield. Do not wear contact lenses. Have an eye wash station available.

**Skin:**

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Protective Clothing:**

Wear chemically resistant gloves and apron. (Consult your safety equipment supplier).

CHEMICAL NAME	CAS #	ACGIH TLV	OSHA PEL	IDLH
Methyl isobutyl ketone	108-10-1	50 ppm TWA 75 ppm STEL	100 ppm TWA; 410 mg/m <sup>3</sup> TWA	500 ppm IDLH
Ethyl acetate	141-78-6	400 ppm TWA	400 ppm TWA; 1400 mg/m <sup>3</sup> TWA	2000 ppm IDLH
Aluminum	7429-90-5	10 mg/m <sup>3</sup> TWA (metal dust)	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	Not determined.

**IX. PHYSICAL DATA****Appearance:**

Silver Liquid.

**Color:**

Silver

**Odor:**

Ketone

**pH:**

N/A

**Octanol/Water Coeff:**

Not Determined.

**Solubility in Water:**

Minimal.

<b>Vapor Density:</b>	Heavier than air. Vapors that evolve from this product will tend to settle and accumulate near the floor.		
<b>Evaporation Rate:</b>	Faster than n-Butyl acetate.		
<b>Specific Gravity/Density:</b>	0.814 / 6.79 Lbs./G1.		
<b>V.O.C.</b>	6.71 Lbs/G1 less water & exempt solvent;	805 g/l less water & exempt solvent;	6.7 Lbs/G1 as packed

The VOC content is determined by using a percent solids basis, less water and exempt solvents, for adhesives, coatings and inks and the calculations of EPA Reference Method 24 or equivalent ASTM method approved by the executive office.

**Initial Boiling Point:** 117 °C; 243 °F

## X. STABILITY AND REACTIVITY

<b>Stability Information:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Sparks, open flame, other ignition sources, and elevated temperatures.
<b>Chemical Incompatibility:</b>	Strong alkalies, Strong acids.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, Carbon monoxide.

## XI. TOXICOLOGICAL INFORMATION

Chemical Name	LD50/LC50
2-Pentanone, 4-methyl-	Inhalation LC50 Mouse: 23300 mg/m <sup>3</sup> ; Oral LD50 Rat: 2080 mg/kg; Oral LD50 Mouse: 2671 mg/kg; Dermal LD50 Rabbit: >20 mL/kg
Acetic acid, ethyl ester	Inhalation LC50 Rat: 200 gm/m <sup>3</sup> ; Inhalation LC50 Mouse: 45 gm/m <sup>3</sup> /2H; Oral LD50 Rat: 5620 mg/kg; Oral LD50 Mouse: 4100 mg/kg; Dermal LD50 Rabbit: >20 mL/kg

## XII. ECOLOGICAL INFORMATION

**Overview:** Care should be taken to minimize releases of any industrial chemicals to the environment. Components of this product are hazardous to wildlife and aquatic life.

## XIII. DISPOSAL CONSIDERATIONS

**Waste Description for Unused Product:** Spent or discarded material is a hazardous waste.

**Disposal Methods:** Information in this MSDS is provided only as a guide. Consult with competent authority to determine proper waste disposal procedures. Clean up and dispose of waste and clean-up materials in accordance with all federal, state, and local environmental regulations.

**Potential EPA Waste Codes:** D001, .

## Some Components Possibly Subjected to USEPA Land Disposal Restrictions:

When disposing of unused products or any waste, the preferred options are to send to a licensed reclaimer or to permitted incinerators. There may be some other ingredients subject to LDR categories.

Methylisobutyl ketone	108-10-1
Ethylacetate	141-78-6

## XIV. TRANSPORTATION INFORMATION

### Agency Basic Description and Label

**DOT** Paint, 3, UN1263, PG II; Label Required: Flammable Liquid.

### Hazardous Substance

Methylisobutyl ketone	RQ = 5000 pounds (2270 kg); also listed as 4-Methyl-2-pentanone
Ethyl acetate	final RQ = 5000 pounds (2270 kg); also listed as Acetic acid, ethyl ester

## XV. REGULATORY INFORMATION

### Regulation

SARA 313 Reportable :	Methyl isobutyl ketone, Aluminum
TSCA Inventory :	All components of this product are listed in, or exempt from, the TSCA 8(b) Inventory.
M.S.D.S. Reportable HAP(s) :	Methyl isobutyl ketone (Hexone).
California Proposition 65 :	The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65: "WARNING: This product contains chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm."

SARA/CERCLA Section 302 : N/A

## XVI. ADDITIONAL INFORMATION

**Major References:** VENDOR'S MSDS's, PAINT & COATINGS HANDBOOK, EPA'S LIST OF LISTS, AND OTHER PUBLISHED MATERIALS.

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