

1 Identification of substance

Trade name: SATIN BLACK ENAMEL
Product code: MD01020000
Manufacturer/Supplier: Liberty Bell Equipment Corporation
 810 North Jefferson Street
 St. Louis, MO 63106
Information department: Health & Safety Department
Emergency information: CHEMTEL 1-800-255-3924, 813-248-0585 if located outside the U.S.

2 Composition/Data on components

Chemical Description: This product is a mixture of the substances listed below with nonhazardous additions.

Dangerous components:

67-64-1	acetone	☒ Xi, ☒ F; R 11-36-66-67	21.09%
74-98-6	propane	☒ F+; R 12	18.91%
64742-89-8	VM&P Naptha	☒ Xn; R 20/22	14.08%
106-97-8	n-butane	☒ F+; R 12	11.11%
108-88-3	toluene	☒ Xn, ☒ F; R 11-20	10.9%
1317-65-3	Calcium Carbonate	☒ Xi; R 36/37/38	4.53%
64742-47-8	Mineral Spirits	☒ Xn, ☒ F; R 11-65	3.65%
67-63-0	isopropyl alcohol	☒ Xi, ☒ F; R 11-36-67	2.47%

Additional information: For the wording of the listed risk phrases refer to section 3.

3 Hazards identification

Hazard description:   Xn Harmful
F+ Extremely flammable

Physical and environmental dangers: Warning! Pressurized container.
 R 12 Extremely flammable.
 R 20 Harmful by inhalation.
 R 36 Irritating to eyes.
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
 Keep out of the reach of children.

NFPA ratings (scale 0 - 4): Health = 1
 Fire = 4
 Reactivity = 3

HMIS-ratings (scale 0 - 4): Health= 1
 Fire= 4
 Physical Hazard= 3

4 First aid measures

General information: Symptoms of poisoning may occur even after several hours. Medical observation for at least 48 hours after the accident is recommended.
After inhalation: In case of unconsciousness, place patient in side position for transportation.
 Supply fresh air. If necessary, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
After skin contact: Generally the product does not irritate the skin.

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/27/2004

Reviewed on 07/27/2004

Trade name: SATIN BLACK ENAMEL

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Consult a doctor if symptoms persist.

(Contd. of page 1)

5 Fire fighting measures

Extinguishing agents: CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment: A respiratory protective device may be necessary when spraying in a confined or poorly ventilated workspace to avoid overexposure.

6 Accidental release measures

Personal safety precautions: Wear protective equipment. Keep unprotected persons away.
Environmental safety precautions: Do not allow product to reach sewage systems or ground water. Inform appropriate authorities in case of seepage into water course or sewage system.
Measures for cleaning/collecting: Do not flush with water or aqueous cleansing agents. Use diluted caustic solution. Soak up spills with inert absorbent material. Refer to section 13 for disposal information.

7 Handling and storage

Safe handling information: Ensure good ventilation/exhaustion at the workplace. Handle carton and cans with care. Avoid dropping.
Fire/explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Storage requirements: Observe official regulations on storing packagings with pressurized containers. Consult with your local authorities. Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions.

8 Exposure controls and personal protection:

Components with limit values that require monitoring at the workplace:

67-64-1 acetone

PEL	2400 mg/m ³ , 1000 ppm
REL	590 mg/m ³ , 250 ppm
TLV	Short-term value: 1782 mg/m ³ , 750 ppm
	Long-term value: 1188 mg/m ³ , 500 ppm
BEI	

74-98-6 propane

PEL	1800 mg/m ³ , 1000 ppm
REL	1800 mg/m ³ , 1000 ppm
TLV	(4508) mg/m ³ , (2500) ppm

106-97-8 n-butane

REL	1900 mg/m ³ , 800 ppm
TLV	1900 mg/m ³ , 800 ppm

(Contd. on page 3)

Trade name: SATIN BLACK ENAMEL

(Contd. of page 2)

108-88-3 toluene

PEL	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	188 mg/m ³ , 50 ppm Skin; BEI

1317-65-3 Calcium Carbonate

PEL	15*; 5** mg/m ³ *Total dust **Respirable fraction
REL	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV	10 mg/m ³ (e)

64742-47-8 Mineral Spirits

TLV	200 mg/m ³ As total hydrocarbon vapor; Skin; (P)
-----	--

67-63-0 isopropyl alcohol

PEL	980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm

Protective hygienic measures:

Keep away from foodstuffs, beverages, and animal feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

Breathing equipment:

A respirator is generally not necessary when using this product outdoors or in large open areas. In cases of inadequate ventilation, a respiratory protective device should be worn to prevent overexposure.

Protection of hands:

Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove recommendation can be given.

Eye protection:

Tightly sealed goggles

9 Physical and chemical properties:

General Information:

Form:	Aerosol
Color:	According to trade name description in section 1.
Odor:	Solvent
Boiling point/Boiling range:	-44°C (-47°F)
Flash point:	-19°C (-2°F)
Ignition temperature:	365.0°C (689°F)
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Heating may cause an explosion. In use, may form flammable/explosive vapour-air mixture.

(Contd. on page 4)
USA

Trade name: SATIN BLACK ENAMEL

(Contd. of page 3)

Lower Explosion Limit: 0.9 Vol %
Upper Explosion Limit: 13.0 Vol %
Vapor Pressure: 40 PSI, 2750 hPa

Density:
Specific Gravity: Between 0.77 and 0.90 (Water equals 1.00)

VOC content: 0.62 kg/l / 5.17 lb/gl
VOC in weight percent (less acetone): 61.9 %

Solids content: 16.9 %

10 Stability and reactivity:

Conditions to be avoided: Do not allow the can to exceed 120 degrees Fahrenheit. Stable at normal temperatures.

Possibility of Hazardous

Reactions: No dangerous reactions known.

11 Toxicological information:

Primary effect on the skin: No irritant effect.

Primary effect on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: Harmful

12 Ecological information

Other information: This product does not contain any chlorinated solvents or lead. No specific ecological data is available for this product.

Aquatic toxicity: Harmful to aquatic organisms.

Hazardous for water, do not empty into drains.

13 Disposal considerations

DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans cannot be disposed of with regular trash. Do not heat or cut empty containers with electric or gas torches.

Recommendation: Empty cans should be recycled.

14 Transport information:

Hazard class: 2.1
Identification number: N/A
Label: 2.1
ADR/RID class: 2.5F Gases
UN-Number: 1950
IMDG Class: 2.1
Packaging group: II
EMS Number: F-D,S-U
Marine pollutant: No

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/27/2004

Reviewed on 07/27/2004

Trade name: SATIN BLACK ENAMEL

(Contd. of page 4)

ICAO/IATA Class: 2.1
Propper shipping name: Aerosols, Flammable
Consumer Commodity ORM-D

15 Regulations

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product are listed.

SARA Section 313 (Specific toxic chemical listings):

108-88-3 toluene
67-63-0 isopropyl alcohol
1330-20-7 xylene (mix)

TSCA (Toxic Substances

Control Act): All ingredients are listed.

PROPOSITION 65 Chemicals known to cause cancer:

None of the ingredients in this product are listed.

PROPOSITION 65 Chemicals known to cause reproductive toxicity:

108-88-3 toluene

Canadian WHMIS: This product has been classified according to the Controlled Product Regulations and the MSDS contains all the necessary information required by the CPR.
Class A, B5---Flammable Aerosols

EPA:

67-64-1 acetone D
108-88-3 toluene D
1330-20-7 xylene (mix) D
100-41-4 ethyl benzene D
110-19-0 isobutyl acetate D

IARC:

Group 2B: The ingredient is possibly carcinogenic to humans. There is limited evidence of carcinogenicity.
Group 3: The ingredient is unclassifiable as to its carcinogenicity to humans.

108-88-3 toluene 3
67-63-0 isopropyl alcohol 3
1333-86-4 Carbon black 2B
1330-20-7 xylene (mix) 3
112926-00-8 Silicone Dioxide Amorphous Synthetic 3

ACGIH TLVs:

A1-designates a confirmed human carcinogen.
A2-designates a suspected human carcinogen.
A3-designates an animal carcinogen.
A4-designates "not classifiable as a human carcinogen".

67-64-1 acetone A4
108-88-3 toluene A4
1333-86-4 Carbon black A4

(Contd. on page 6)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/27/2004

Reviewed on 07/27/2004

Trade name: SATIN BLACK ENAMEL

(Contd. of page 5)

1330-20-7	xylene (mix)	A4
110-19-0	isobutyl acetate	A4

NIOSH:

1333-86-4	Carbon black
-----------	--------------

**USDA (United States
Department of
Agriculture):**

This product was manufactured to conform to the USDA Food Safety and Inspection Service performance standards. These standards include, but are not limited to, the ability of this product to be safe for use in official meat and poultry establishments, and to perform well under a daily regimen of thorough cleaning, cyclical temperature change, and wet conditions.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

USA