

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/20/2010

Reviewed on 07/20/2010

1 Identification of substance

Trade name: SEMI-GLOSS BLACK ENAMEL
Product codes: ZB00980024
Manufacturer/Supplier: Hi-Tech Industries
 19270 West Eight Mile Road
 Southfield, MI 48075
Information department: Health & Safety Department
Emergency information: INFOTRAC 1-800-535-5053

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	20.94%
74-98-6	propane	18.91%
64742-89-8	VM&P Naphtha	13.91%
106-97-8	n-butane	11.11%
108-88-3	Toluene	10.83%
64742-47-8	Mineral Spirits	3.76%
67-63-0	isopropyl alcohol	2.45%

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

3 Hazards identification

Hazard description:  Harmful
Extremely flammable

Physical dangers: Extremely flammable liquid and vapor in a pressurized container. Keep away from heat, sparks, and flame.
 Has narcotizing effect.
 Extremely flammable.
 Irritating to eyes.
 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 Do not spray on a naked flame or any incandescent material.
 Buildup of explosive mixtures possible without sufficient ventilation.

Effects of chronic overexposure: May cause permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart, and blood. Intentional misuse by deliberately inhaling the contents may be harmful or fatal.

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

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

4 First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Remove contaminated clothing. Wash exposed area with soap and water.
After eye contact: Move to fresh air. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Contact physician or poison control center.

5 Fire fighting measures

Extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.
 CO₂, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment: No special measures required.

6 Accidental release measures

Personal safety: Wear protective equipment. Keep unprotected persons away.
Environmental safety: Inform appropriate authorities in case of seepage into water course or sewage system. Do not allow product to reach sewage systems or ground water.
Clean-up/collection: 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.
 Ensure adequate ventilation.

7 Handling and storage

Fire/explosion protection: Do not smoke. Protect from electrostatic charges.
 Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic discharges.

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Storage requirements: Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Observe pressurized container storage regulations. Consult with your local authorities. (Contd. of page 1)

8 Exposure controls and personal protection:

Components with limit values that require monitoring at the workplace:

67-64-1 Acetone

PEL 2400 mg/m³, 1000 ppm
 REL 590 mg/m³, 250 ppm
 TLV Short-term value: 1782 mg/m³, 750 ppm
 Long-term value: 1188 mg/m³, 500 ppm
 BEI

74-98-6 propane

PEL 1800 mg/m³, 1000 ppm
 REL 1800 mg/m³, 1000 ppm
 TLV Varies mg/m³, 1000 ppm

106-97-8 n-butane

REL 1900 mg/m³, 800 ppm
 TLV Varies mg/m³, 1000 ppm

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/m³, 150 ppm
 Long-term value: 375 mg/m³, 100 ppm
 TLV 75 mg/m³, 20 ppm
 NIC-BEI

67-63-0 isopropyl alcohol

PEL 980 mg/m³, 400 ppm
 REL Short-term value: 1225 mg/m³, 500 ppm
 Long-term value: 980 mg/m³, 400 ppm
 TLV Short-term value: 984 mg/m³, 400 ppm
 Long-term value: 492 mg/m³, 200 ppm
 BEI

Hygienic protection: Keep away from foodstuffs and animal feed. Wash hands after use.
Breathing equipment: A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.
Hand protection: 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: Aromatic
Boiling point: -110°C (-166°F)
Flash point: -19°C (-2°F)
Auto igniting: Product is not self-igniting.
Danger of explosion: Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120 degrees fahrenheit.
 In use, may form flammable/explosive vapour-air mixture.
Lower Explosion Limit: 1.5 Vol %
Upper Explosion Limit: 10.9 Vol %
Vapor Pressure: 40 PSI, 2750 hPa
Density at 20°C (68°F): 0.73 g/cm³
Specific Gravity: Between 0.77 and 0.85 (Water equals 1.00)
VOC content: 563.1 g/l / 4.70 lb/gl
VOC content (less exempt solvents): 61.8 %
MIR Value: 1.08
Solids content: 17.2 %

10 Stability and reactivity:

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

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Trade name: SEMI-GLOSS BLACK ENAMEL

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Materials to be avoided:
Hazardous Reactions: No dangerous reactions known.

11 Toxicological information:

Skin effects: No irritant effect.
Eye effects: Irritating effect.
Sensitization: No sensitizing effects known.
Additional toxicological information: Harmful

12 Ecological information

Other information: Product does not contain CFC's. This product does not contain any chlorofluorocarbons (CFC's), hydrochlorofluorocarbons (HCFC's), perfluorocarbons (PFC's), or chlorinated solvents.
Aquatic toxicity: 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 must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.
Recommendation: Completely empty cans should be recycled.

14 Transport information:

Hazard class: 2.1
Identification number: N/A
Label: 2.1
ADR/RID/TDG class: 2 5F Gases
UN-Number: 1950
IMDG Class: 2.1
Packaging group: II
EMS Number: F-D,S-U
Marine pollutant: No
ICAO/IATA Class: 2.1
Proper 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

TSCA: All ingredients are listed.

CPSC: This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:

1333-86-4	Carbon black
100-41-4	ethyl benzene

California Proposition 65 chemicals known to cause developmental toxicity: 108-88-3 Toluene

CANADIAN ENVIRONMENTAL PROTECTION ACT: WHMIS Symbols for Canada:

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

A - Compressed gas
D2A - Very toxic material causing other toxic effects



EPA: A= Known human carcinogen B= Probable human carcinogen
C= Possible human carcinogen
D= Not classifiable as to human carcinogenicity: Inadequate human and animal evidence of carcinogenicity (or no data is available).
I: 'Data are inadequate for an assessment of human carcinogeni potential.'
II: 'Inadequate information to assess carcinogenic potential.'

67-64-1	Acetone	I
108-88-3	Toluene	II

IARC: Group 2A: The ingredient is probably carcinogenic to humans.
Group 2B: The ingredient is possibly carcinogenic to humans. There is limited evidence of

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carcinogenicity.
Group 3: The ingredient is unclassifiable as to its carcinogenicity to humans.

108-88-3	Toluene	3
67-63-0	isopropyl alcohol	3

ACGIH: 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
67-63-0	isopropyl alcohol	A4

NIOSH:

1333-86-4	Carbon black
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Risk phrases: Extremely flammable.
Irritating to eyes.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases: Keep out of the reach of children.
Keep away from sources of ignition - No smoking.
Do not breathe gas/fumes/vapour/spray.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
Wear suitable protective clothing and gloves.
If swallowed, seek medical advice immediately and show this container or label.
Use only in well-ventilated areas.

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.

Contact: Regulatory Affairs

Abbreviations and acronyms:

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- PP: Severe Marine Pollutant
- P: Marine Pollutant
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- ISO: International Organization for Standardization
- EPA: Environmental Protection Agency
- IARC: International Agency for the Research of Cancer
- NIOSH: National Institute for Occupational Safety and Health
- TSCA: Toxic Substances Control Act
- CPSC: Consumer Product Safety Commission