

005/510

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 03/22/2002

Reviewed on 03/22/2002

1 Identification of substance

Trade name: GLOSS BLACK ENAMEL

Product code: ZB00980003

Manufacturer/Supplier:

Hi-Tech Industries

19270 W. Eight Mile Road

Southfield, MI 48075

(248) 358-5533

Information department: Customer Service

Emergency information: INFOTRAC (800) 535-5053

0390229-001
1-3-03**2 Composition/Data on components**

Chemical Characterization Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

67-64-1	acetone	Xi, F; R 11-36-66-67	21.23%
74-98-6	propane	F+; R 12	18.91%
64742-89-8	VM&P Naptha	Xn; R 20/22	12.36%
106-97-8	n-butane	F+; R 12	11.11%
108-88-3	toluene	Xn, F; R 11-20	10.37%
67-63-0	isopropyl alcohol	Xi, F; R 11-36-67	4.69%
64742-47-8	Mineral Spirits	Xn, F; R 11-65	3.56%
7727-43-7	barium sulphate, natural	Xi; R 37	1.87%

3 Hazards identification**Hazard description:**Xn Harmful
F+ Extremely flammable**Information pertaining to particular dangers for man and environment:**

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.

76.8 % by mass of the contents are flammable

Keep out of the reach of children/flammable

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)

Health = 1

Fire = 4

Reactivity = 3

HMIS-ratings (scale 0 - 4)

Health = 1

Fire = 4

Reactivity = 3

4 First aid measures**General information:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** If symptoms persist consult doctor.**5 Fire fighting measures****Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.**Protective equipment:** Mount respiratory protective device.**6 Accidental release measures****Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.**Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

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7 Handling and storage

Handling:

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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.

Do not spray on a naked flame or any incandescent material.

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.

Further information about storage conditions:

Keep receptacle tightly sealed.
Do not gas tight seal receptacle.
Store in cool, dry conditions in well sealed receptacles
Protect from heat and direct sunlight.

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 4508 mg/m³, 2500 ppm

106-97-8 n-butane

REL 1900 mg/m³, 800 ppm
TLV 1900 mg/m³, 800 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 188 mg/m³, 50 ppm
Skin; 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: (1230) mg/m³, (500) ppm
Long-term value: (983) mg/m³, (400) ppm
NIC-200; 491; 400; 984; A 4

7727-43-7 barium sulphate, natural

PEL 15*, 5** mg/m³
*Total dust **Respirable fraction
REL 10*; 5** mg/m³
*Total dust **Respirable fraction
TLV 10 mg/m³
(e)

Additional information: The lists that were valid during the creation were used as basis.

General protective and hygienic measures:

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

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands: Not required.

Eye protection: Tightly sealed goggles

9 Physical and chemical properties

Form:	Aerosol
Color:	According to product specification
Odor:	Characteristic
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 selfigniting.

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Danger of explosion:	Pressurized container. protect from sunlight and do not expose to temperatures exceeding 50°C, i.c. electric lights. Do not pierce or burn, even after use.
Lower Explosion Limit:	0.9 Vol %
Upper Explosion Limit:	13.0 Vol %
Vapor pressure at 20°C (68°F):	8300.0 hPa
Density:	Not determined.
Organic solvent Content:	79.2 %
Solids content:	16.9 %

10 Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions No dangerous reactions known.

11 Toxicological information

Primary irritating effect on the skin: No irritant effect.
Primary irritating effect on the eye: Irritating effect.
Sensitization: No sensitizing effects known.
Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful.
Irritant.

13 Disposal considerations

DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Empty containers must be handled with care due to product residue. Do not heat or cut empty containers with electric or gas torches.
Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

14 Transport information:

Hazard class:	2.1
Identification number:	N/A
Proper shipping name (technical name):	Consumer Commodity
ADR/RID class:	2 Gases
Item:	5 F
UN-Number:	1950
IMDG Class:	2
Page:	2102
Packaging group:	II
EMS Number:	2-13
MFAG:	620
Marine pollutant:	No
ICAO/IATA Class:	2.1
Proper shipping name:	Aerosols, Flammable

15 Regulations

Sara	
Section 355 (extremely hazardous substances):	None of the ingredient is listed.
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):	
67-64-1	acetone
74-98-6	propane
64742-89-8	VM&P Naptha
106-97-8	n-butane
108-88-3	toluene
67-63-0	isopropyl alcohol
64742-47-8	Mineral Spirits
7727-43-7	barium sulphate, natural
1333-86-4	Carbon black
108-65-6	PM acetate
1330-20-7	xylene (mix)
Proposition 65	
Chemicals known to cause cancer:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity:	
108-88-3	toluene

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Carcinogenity categories

EPA (Environmental Protection Agency)

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

IARC (International Agency for Research on Cancer)

108-88-3	toluene	3
67-63-0	isopropyl alcohol	3
1333-86-4	Carbon black	2B
1330-20-7	xylene (mix)	3

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

67-64-1	acetone	A4
108-88-3	toluene	A4
1333-86-4	Carbon black	A4
1330-20-7	xylene (mix)	A4

NIOSH-Ca (National Institute for Occupational Safety and Health)

1333-86-4 Carbon black

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Hazard symbols:

Xn Harmful
F+ Extremely flammable

Hazard-determining components of labelling:

toluene

Risk phrases:

12 Extremely flammable.
20 Harmful by inhalation.
36 Irritating to eyes.

Safety phrases:

2 Keep out of the reach of children.
23 Do not breathe gas/fumes/vapour/spray.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

Special labeling of certain preparations:

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.
76.8 % by mass of the contents are flammable
Keep out of the reach of children/flammable

Technical instructions (air):

Class	Share in %
II	10.6
III	56.2
NK	12.4

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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.