

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 11/15/2004

Reviewed on 11/15/2004

1 Identification of substance

Trade name:

BLACK HI-TEMP

Product code:

010301

Manufacturer/Supplier:

Design Engineering 604 Moore Road Avon Lake, OH 44012 phone: 440-934-0800

Information department:

Health & Safety Department CHEMTEL 1-800-255-3924, 813-248-0585 if located outside the U.S. **Emergency information:**



2 Composition/Data on components

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

Dangerous components:							
108-88-3	toluene	_R Xn, _N F; R 11-20	25.24%				
74-98-6		K F+; R 12	18.91%				
67-64-1	acetone	R Xi, N F; R 11-36-66-67	16.58%				
106-97-8	n-butane	K F+; R 12	11.11%				
7727-43-7	barium sulphate, natural	R Xi; R 37	5.48%				
64742-89-8		R Xn; R 20/22	4.13%				
1330-20-7	xylene (mix)	K Xn; R 10-20/21-38	1.32%				

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 dangers:

Warning! Pressurized container. Keep away from heat, sparks, and flame.

R 12 Extremely flammable. R 20 Harmful by inhalation.

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.

Effects of short-term overexposure:

Causes irritation to the eyes, nose, throat, skin, and central nervous system. Symptoms may include dizziness, throat irritation, headache, fatigue, swelling of eyes, and nausea. Harmful or fatal if swallowed.

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.

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NFPA ratings (scale 0 - 4): Health =

Fire =

HMIS-ratings (scale 0 - 4):

Reactivity = 3Health= 1 4 Fire=

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:

Supply fresh air. If necessary, provide artificial respiration. Keep patient warm. Consult doctor if

symptoms persist.

After skin contact:

Remove contaminated clothing. Wash exposed area with soap and water.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Contact physician or poison control center. After swallowing:

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.

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#703238

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(Contd. of page 1)

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

Fire/explosion protection:

Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic charges.

Storage requirements:

Observe pressurized container storage regulations. Consult with your local authorities. Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions.

Components with limit values that require monitoring at the workplace:				
108-8	8-3 toluene			
PEL	Short-term value: C 300; 500* ppm			
	Long-term value: 200 ppm			
	*10-min peak per 8-hr shift			
REL				
TT 37	Long-term value: 375 mg/m³, 100 ppm 188 mg/m³, 50 ppm			
TTA	Skin; BEI			
74-98	8-6 propane			
	1800 mg/m³, 1000 ppm			
REL.	1800 mg/m³, 1000 ppm			
TLV	(4508) mg/m³, (2500) ppm			
	-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			
106.0	BEI 7-8 n-butane			
TIV	1900 mg/m³, 800 ppm 1900 mg/m³, 800 ppm			
	43-7 barium sulphate, natural			
	15*; 5** mg/m³			
LEL	*Total dust **Respirable fraction			
REL	10*; 5** mg/m³			
	*Total dust **Respirable fraction			
TLV	10 mg/m³			
	(e)			
	20-7 xylene (mix)			
	435 mg/m³, 100 ppm			
REL	Short-term value: 655 mg/m ³ , 150 ppm			
	Long-term value: 435 mg/m³, 100 ppm			
TT 37	(o-, m-, & p-isomers) Short torm valve 651 mg/m ³ 150 nnm			
TLA	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm			
	BEI			

Protective hygienic

measures:

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 of inadequate ventilation, a respiratory protective device should be worn to prevent overexposure. Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove

Protection of hands: recommendation can be given.

(Contd. on page 3)

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703232

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Eye protection: Tightly	v sealed goggles (Contd. of page
Physical and chemical propert	ies:
General Information:	
Form: Color: Odor: Boiling point/Boiling range:	Aerosol According to trade name description in section 1. Solvent -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: Lower Explosion Limit:	Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 12 degrees fahrenheit. In use, may form flammable/explosive vapour-air mixture. 1.2 Vol %
Upper Explosion Limit: Vapor Pressure:	13.0 Vol % 40 PSI, 2750 hPa
Density: Specific Gravity:	Not determined. Between 0.77 and 0.90 (Water equals 1.00)
VOC content: VOC in weight percent (less acetor	0.62 kg/l / 5.21 lb/gl ne): 62.5 %

10 Stability and reactivity:

Conditions to be avoided: Possibility of Hazardous

Reactions:

Solids content:

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

No dangerous reactions known.

20.7 %

11 Toxicological information:

Primary effect on the skin: No irritant effect.

Primary effect on the eye: Sensitization:

No irritating effect. No sensitizing effects known.

Additional toxicological

information:

Harmful

12 Ecological information

Other information:

This product does not contain any chloroflourocarbons (cfc's), chlorinated solvents, or lead. No specific ecological data is available for this product.

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. Empty cans should be recycled.

Recommendation:

14 Transport information:

Hazard class: Identification number: 2.1 N/A 2.1

ADR/RID class:

2 5F Gases

UN-Number:

Label

1950

IMDG Class: Packaging group:

EMS Number:

II F-D,S-U

Marine pollutant: ICAO/IÂTA Class: No

(Contd. on page 4)

Page 4/4

103232

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'rade name: I	BLACK HI-TE	MP	
			Contd. of page 3)
Propper sl	nipping name	Aerosols, Flammable Consumer Commodity ORM-D	
15 Regulatio			
		emely hazardous substances):	
None of the	e ingredients i	this product are listed.	
		rific toxic chemical listings):	
108-88-3			
	xylene (mix)		
TSCA (To Control A	xic Substance	s All ingredients are listed.	
	- /	micals known to cause cancer:	
	thyl benzene	mitals anown to cause tancer.	
		micals known to cause reproductive toxicity:	
108-88-3 t		micals known to cause reproductive toxicity.	
Canadian EPA:	WHMIS:	Class A, B5Flammable Aerosols A= Known human carcinogen B= Probable human carcinogen C= Possible human carcinogen D= Not classifiable as to human carcinogenicity: Inadequate human and animal e carcinogenicity (or no data is available).	vidence of
108-88-3	toluene	D	
67-64-1	acetone	D	
1330-20-7	xylene (mix)		
IARC:		Group 2B: The ingredient is possibly carcinogenic to humans. There is limited e carcinogenicity. Group 3: The ingredient is unclassifiable as to its carcinogenicity to humans.	vidence of
108-88-3	toluene	3	
	xylene (mix)		
ACGIH T	LVs:	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".	
108-88-3	toluene	A4	
67-64-1	acetone	A4	
1330-20-7	xylene (mix)	A4	
NIOSH:			
1333-86-4	Carbon black		
USDA (Un Departme Agricultur	nited States nt of re):	This product was manufactured to conform to the USDA Food Safety and Inspecti performance standards. These standards include, but are not limited to, the ability of this persafe for use in official meat and poultry establishments, and to perform well under a daily thorough cleaning, cyclical temperature change, and wet conditions.	oduct to be

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.

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