

Safety Data Sheet

Printing date 07/27/2015

Revised On 07/27/2015

1 Identification of the substance and manufacturer

Trade name: BLACK HT SILICONE COATING
Product code: EX06161203
Product category: PC9a Paints and coatings.
Manufacturer/Supplier: Design Engineering
 604 Moore Road
 Cleveland, OH 44012
 phone: 800.264.9472 fax: 440.930.7967
 www.DesignEngineering.com
Emergency telephone number: CHEMTEL 1-800-255-3924, or 813-248-0585.

2 Hazard(s) identification

Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.
 Press. Gas H280 Contains gas under pressure; may explode if heated.
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2A H319 Causes serious eye irritation.
 Repr. 2 H361 Suspected of damaging fertility or the unborn child.
 STOT SE 3 H336 May cause drowsiness or dizziness.
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS Hazard pictograms



GHS02 GHS04 GHS07 GHS08

Signal word

Danger

Hazard statements

Extremely flammable aerosol.
 Contains gas under pressure; may explode if heated.
 Causes skin irritation.
 Causes serious eye irritation.
 Suspected of damaging fertility or the unborn child.
 May cause drowsiness or dizziness.

Precautionary statements

May cause damage to organs through prolonged or repeated exposure.
 Obtain special instructions before use.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.
 Wash hands thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Do not handle until all safety precautions have been read and understood.
 Wear protective gloves.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Call a poison center/doctor if you feel unwell.
 If skin irritation occurs: Get medical advice/attention.
 If on skin: Wash with plenty of water.
 If eye irritation persists: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Store locked up.
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 Store in a well-ventilated place. Keep container tightly closed.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Chemical Description:

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

Dangerous components:

108-88-3	Toluene	25.23%
74-98-6	propane	18.91%
67-64-1	Acetone	16.58%
106-97-8	n-butane	11.11%
7727-43-7	barium sulfate, natural	5.48%
68186-94-7	Iron Manganese Oxide Black	5.33%
64742-89-8	VM&P Naphtha	3.96%
1330-20-7	xylene (mix)	1.37%

Additional information:

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

4 First-aid measures

After inhalation:

If breathing is difficult, administer oxygen.
 Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
 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.

After swallowing:

Rinse out mouth and then drink plenty of water.

(Contd. on page 2)

Safety Data Sheet

Printing date 07/27/2015

Revised On 07/27/2015

Trade name: BLACK HI TEMP

(Contd. of page 1)

Most important symptoms and effects:

Rinse mouth with water. Do not induce vomiting.

Indication of any immediate medical attention needed:

Dizziness

No further relevant information available.

5 Fire-fighting measures**Extinguishing agents:**CO₂, extinguishing powder or water spray. Fight larger fires with water spray.**Special hazards:**

Can form explosive gas-air mixtures.

Protective equipment for firefighters:

A respiratory protective device may be necessary.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures:**Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.**Methods and material for containment and cleaning up:**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.
Dispose contaminated material as waste according to section 13.**7 Handling and storage****Precautions for safe handling**

Use only in well ventilated areas.

Storage requirements:

Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions. Store locked up.

8 Exposure controls/personal protection**Components with limit values that require monitoring at the workplace:****108-88-3 Toluene**

PEL (USA)	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
-----------	---

REL (USA)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
-----------	---

TLV (USA)	Long-term value: 75 mg/m ³ , 20 ppm BEI
-----------	---

74-98-6 propane

PEL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
-----------	--

REL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
-----------	--

TLV (USA)	refer to Appendix F
-----------	---------------------

67-64-1 Acetone

PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
-----------	--

REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm
-----------	--

TLV (USA)	Short-term value: (1782) NIC-1187 mg/m ³ , (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m ³ , (500) NIC-250 ppm BEI
-----------	---

106-97-8 n-butane

REL (USA)	Long-term value: 1900 mg/m ³ , 800 ppm
-----------	---

TLV (USA)	Short-term value: 2370 mg/m ³ , 1000 ppm
-----------	---

7727-43-7 barium sulfate, natural

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
-----------	---

REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
-----------	---

TLV (USA)	Long-term value: 5* mg/m ³ *inhalable fraction; E
-----------	---

1330-20-7 xylene (mix)

PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm
-----------	--

REL (USA)	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
-----------	---

TLV (USA)	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
-----------	--

(Contd. on page 3)

Safety Data Sheet

Printing date 07/27/2015

Revised On 07/27/2015

Trade name: BLACK HI TEMP

(Contd. of page 2)

Ingredients with biological limit values:**108-88-3 Toluene**

BEI (USA) 0.02 mg/L
Medium: blood
Time: prior to last shift of workweek
Parameter: Toluene

0.03 mg/L
Medium: urine
Time: end of shift
Parameter: Toluene

0.3 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: o-Cresol with hydrolysis (background)

67-64-1 Acetone

BEI (USA) 50 mg/L
Medium: urine
Time: end of shift
Parameter: Acetone (nonspecific)

1330-20-7 xylene (mix)

BEI (USA) 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids

Hygienic protection: Keep away from foodstuffs and animal feed. Wash hands after use. Immediately remove all soiled and contaminated clothing. Wash hands after use. Store protective clothing separately. Avoid contact with the skin. Avoid contact with the eyes and skin. Do not eat or drink while working.

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 must be impermeable and resistant to the substance.

Eye protection: Tightly sealed goggles

9 Physical and chemical properties

Appearance: Aerosol.
Odor threshold: Not determined.
pH-value: Not determined.
Melting point/Melting range: Undetermined.
Boiling point: -44 °C (-47 °F)
Flash point: -19 °C (-2 °F)
Flammability (solid, gas): Extremely flammable.
Decomposition temperature: Not determined.
Auto igniting: Product is not self-igniting.
Danger of explosion: 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. In use, may form flammable/explosive vapour-air mixture.
Lower Explosion Limit: 1.5 Vol %
Upper Explosion Limit: 10.9 Vol %
Vapor pressure at 20 °C (68 °F): 8300.0 hPa (6226 mm Hg)
Relative Density: Between 0.77 and 0.85 (Water equals 1.00)
Vapour density: Not determined.
Evaporation rate: Not applicable.
Partition coefficient: n-octonal/water: Not determined.
Solubility: Not determined.
Viscosity: Not determined.
VOC content: 597.5 g/l / 4.99 lb/gl
VOC content (less exempt solvents): 62.5 %
MIR Value: 1.52
Solids content: 20.7 %

10 Stability and reactivity

Reactivity: Stable at normal temperatures.
Conditions to avoid: Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing temperatures.
Chemical stability: Not fully evaluated.
Possibility of hazardous reactions: No dangerous reactions known.
Incompatible materials: No further relevant information available.

(Contd. on page 4)

Safety Data Sheet

Printing date 07/27/2015

Revised On 07/27/2015

Trade name: BLACK HI TEMP

Hazardous decomposition: No dangerous decomposition products known.

(Contd. of page 3)

11 Toxicological information

LD/LC50 values that are relevant for classification:

106-97-8 n-butane

Inhalative LC50/4 h 658 mg/l (rat)

1330-20-7 xylene (mix)

Oral LD50 8700 mg/kg (rat)

Dermal LD50 2000 mg/kg (rbt)

Inhalative LC50/4 h 6350 mg/l (rat)

Information on toxicological effects: No data available.

Skin effects: Irritant to skin and mucous membranes.

Eye effects: No irritating effect.

Sensitization: No sensitizing effects known.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

108-88-3 Toluene

3

1330-20-7 xylene (mix)

3

NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

Aquatic toxicity: Hazardous for water, do not empty into drains.

Persistence and degradability: The product is degradable after prolonged exposure to natural weathering processes.

Other information: Product does not contain CFC's.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Other adverse effects: No further relevant information available.

13 Disposal considerations

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

UN-Number UN1950
DOT N/A
DOT Consumer Commodity ORM-D
Aerosols, flammable
ADR 1950 Aerosols

Transport hazard class(es):

Class 2.1

Marine pollutant: No

Special precautions for user: Warning: Gases

EMS Number: F-D,S-U

Quantity limitations On passenger aircraft/rail: 75 kg

On cargo aircraft only: 150 kg

ADR
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

Item:

IMDG

Limited quantities (LQ) 1L
Excepted quantities (EQ) Code: E0
Not permitted as Excepted QuantityPackaging Group: --
UN "Model Regulation": UN1950, Aerosols, 2.1

15 Regulatory information

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

7727-43-7 barium sulfate, natural

1330-20-7 xylene (mix)

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:

100-41-4 ethyl benzene

(Contd. on page 5)

Safety Data Sheet

Printing date 07/27/2015

Revised On 07/27/2015

Trade name: BLACK HI TEMP

(Contd. of page 4)

1333-86-4 Carbon black

**California Proposition 65 chemicals
known to cause developmental
toxicity:**

108-88-3 Toluene
67-56-1 Methanol

**CANADIAN ENVIRONMENTAL
PROTECTION ACT:**

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

EPA:

108-88-3	Toluene	II
67-64-1	Acetone	I
7727-43-7	barium sulfate, natural	D, CBD(inh), NL(oral)
1330-20-7	xylene (mix)	I

16 Other information

Contact: Regulatory Affairs
Date of preparation / last revision 07/27/2015 / -