

# MATERIAL SAFETY DATA SHEET

## HT Silicone Spray™ - Silver

### SECTION I – IDENTIFICATION

**Distributor:** Design Engineering, Inc.  
**Address:** 604 Moore Rd  
**Phone:** (440) 930-7940  
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**Date Prepared:** June 2006

### SECTION II – INGREDIENTS AND HAZARD CLASSIFICATION

Dangerous components:			
108-88-3	toluene	R Xn, R F; R 11-20	23.75%
67-64-1	acetone	R Xi, R F; R 11-36-66-67	21.62%
74-98-6	propane	R F+; R 12	18.91%
106-97-8	n-butane	R F+; R 12	11.11%
7727-43-7	barium sulphate, natural	R Xi; R 37	5.47%
64742-89-8	VM&P Naptha	R Xn; R 20/22	4.54%
7429-90-5	Aluminum flake	R Xi; R 37	3.03%
1330-20-7	xylene (mix)	R Xn; R 10-20/21-38	1.23%

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

### SECTION III – HAZARDS IDENTIFICATION

**Physical dangers:** Warning! Pressurized container. Keep away from heat, sparks, and flame.

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.

**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. Deliberately inhaling the contents may be harmful or fatal.

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

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

### SECTION IV – FIRST AID MEASURES

**After inhalation:** Supply fresh air; Keep patient warm; consult doctor in case of complaints.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing.

**After eye contact:** Move to fresh air. Rinse opened eye for several minutes under running water.

**After swallowing:** Contact physician or poison control center.

### SECTION V – FIRE FIGHTING MEASURES

**Extinguishing agents:** CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** No special measures required.

### SECTION VI – 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. Dispose of properly.

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### SECTION VII – 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.

### SECTION VIII – SPECIAL PROTECTION INFORMATION

Components with limit values that require monitoring at the workplace:	
<b>108-88-3 toluene</b>	
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 <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV	188 mg/m <sup>3</sup> , 50 ppm Skin: BEI
<b>67-64-1 acetone</b>	
PEL	2400 mg/m <sup>3</sup> , 1000 ppm
REL	590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1782 mg/m <sup>3</sup> , 750 ppm Long-term value: 1188 mg/m <sup>3</sup> , 500 ppm BEI
<b>74-98-6 propane</b>	
PEL	1800 mg/m <sup>3</sup> , 1000 ppm
REL	1800 mg/m <sup>3</sup> , 1000 ppm
TLV	(4508) mg/m <sup>3</sup> , (2500) ppm
<b>106-97-8 n-butane</b>	
REL	1900 mg/m <sup>3</sup> , 800 ppm
TLV	1900 mg/m <sup>3</sup> , 800 ppm
<b>7727-43-7 barium sulphate, natural</b>	
PEL	15*; 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
REL	10*; 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
TLV	10 mg/m <sup>3</sup> (e)
<b>7429-90-5 Aluminum flake</b>	
PEL	15*; 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
REL	10*; 5** mg/m <sup>3</sup> Metal dust; *Total dust **Respirable fraction
TLV	10 mg/m <sup>3</sup> Metal dust
<b>1330-20-7 xylene (mix)</b>	
PEL	435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm (o-, m-, & p-isomers)
TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 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. Use suitable respiratory protective device in case of insufficient ventilation.

**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

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### SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Aerosol

**Color:** Black

**Odor:** Solvent

**Boiling point/Boiling range:** -44°C (-47°F)

**Ignition temperature:** 365.0°C (689°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:** 1.2 Vol %

**Upper Explosion Limit:** 13.0 Vol %

**Vapor Pressure:** 40 PSI, 2750 hPa

**Density:** Not determined.

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

**VOC content:** 0.61 kg/l / 5.12 lb/gl

**VOC in weight percent (less acetone):** 16.9 %

### SECTION X – 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.

### SECTION XI – TOXICOLOGICAL INFORMATION

**Primary effect on the skin:** No irritant to skin.

**Primary effect on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:** Harmful

### SECTION XII – ECOLOGICAL INFORMATION

**Other information:** This product does not contain any chlorofluorocarbons (CFC's), chlorinated solvents, or heavy metals (lead, mercury, cadmium, etc.). No specific ecological data is available for this product.

### SECTION XIII – DISPOSAL CONSIDERATION

**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:** Empty cans should be recycled.

### SECTION XIV – TRANSPORTATION INFORMATION

**Hazard class:** 2.1

**Identification number:** N/A

**Label:** 2.1

**ADR/RID class:** 2.5F

**Gases UN-Number:** 1950

**IMDG Class:** 2

**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

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### SECTION XV – REGULATIONS

<b>SARA Section 355 (extremely hazardous substances):</b>		
None of the ingredients in this product are listed.		
<b>SARA Section 313 (Specific toxic chemical listings):</b>		
108-88-3	toluene	
1330-20-7	xylene (mix)	
<b>TSCA (Toxic Substances Control Act):</b> All ingredients are listed.		
<b>PROPOSITION 65 Chemicals known to cause cancer:</b>		
100-41-4	ethyl benzene	
<b>PROPOSITION 65 Chemicals known to cause reproductive toxicity:</b>		
108-88-3	toluene	
<b>Canadian WHMIS:</b> Class A, B5---Flammable Aerosols		
<b>EPA:</b> 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).		
108-88-3	toluene	D
67-64-1	acetone	D
1330-20-7	xylene (mix)	D
<b>IARC:</b> 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
1330-20-7	xylene (mix)	3
<b>ACGIH TLVs:</b> 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
<b>NIOSH:</b>		
None of the ingredients is listed.		

The information presented in this MSDS is believed to be factual. However, nothing contained in this information is to be taken as a warranty of any kind. The user should review any recommendations, in the specific content use, to determine whether they are appropriate.

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