### 1 Identification of the substance and manufacturer

Trade name: **ALUMINUM HT SILICONE COATING** 

Product code: EX06161201

Product category PC9a Paints and coatings. Design Engineering 604 Moore Road Cleveland, OH 44012 phone: 800.264.9472 fax: 440.930.7967 Manufacturer/Supplier:

www.DesignEngineering.com

CHEMTEL 1-800-255-3924, or 813-248-0585. **Emergency telephone number:** 

### 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.

H350 May cause cancer. Carc. 1B

H361 Suspected of damaging fertility or the unborn child. Repr. 2

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** 

**Precautionary statements** 

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.

May cause cancer.

Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
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.

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.

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

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

Dangerous components: 108-88-3 Toluene 23.75% 67-64-1 Acetone 21.62% 74-98-6 propane 18.91% 106-97-8 n-butane 11.11% 7727-43-7 barium sulfate, natural 5.47% 64742-89-8 VM&P Naphtha 3.13% 7429-90-5 Aluminum flake 2.81% 8052-41-3 Stoddard Solvent 1.52% 1330-20-7 xylene (mix) 1.23%

#### 4 First-aid measures

After inhalation: 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. If symptoms persist, consult a

doctor.

Trade name: ALUMINUM HI TEMP

After swallowing: Rinse out mouth and then drink plenty of water. Rinse mouth with water. Do not induce vomiting.

Most important symptoms and

effects:

Indication of any immediate medical

attention needed:

Dizziness

No further relevant information available.

5 Fire-fighting measures

**Extinguishing agents:** Special hazards:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

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:

Ensure adequate ventilation.

Dispose contaminated material as waste according to section 13.

7 Handling and storage

Precautions for safe handling

Storage requirements:

Use only in well ventilated areas.

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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm

Long-term value: 75 mg/m3, 20 ppm

TLV (USA)

#### 67-64-1 Acetone

PEL (USA) Long-term value: 2400 mg/m³, 1000 ppm

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

TLV (USA) | Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm

Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm

BEI

74-98-6 propane

PEL (USA) Long-term value: 1800 mg/m³, 1000 ppm

REL (USA) Long-term value: 1800 mg/m³, 1000 ppm

TLV (USA) refer to Appendix F

106-97-8 n-butane

REL (USA) Long-term value: 1900 mg/m³, 800 ppm

TLV (USA) Short-term value: 2370 mg/m³, 1000 ppm

7727-43-7 barium sulfate, natural

PEL (USA) Long-term value: 15\* 5\*\* mg/m³

\*total dust \*\*respirable fraction

REL (USA) Long-term value: 10\* 5\*\* mg/m<sup>3</sup>

\*total dust \*\*respirable fraction

Long-term value: 5\* mg/m³ \*inhalable fraction; E TLV (USA)

7429-90-5 Aluminum flake

PEL (USA) Long-term value: 15\*; 15\*\* mg/m³
\*Total dust; \*\* Respirable fraction

REL (USA) Long-term value: 10\* 5\*\* mg/m³

as Ăl\*Total dust\*\*Respirable/pyro powd./welding f.

Long-term value: 1\* mg/m³ as Al; \*as respirable fraction TLV (USA)

8052-41-3 Stoddard Solvent

PEL (USA) Long-term value: 2900 mg/m³, 500 ppm

REL (USA) Long-term value: 350 mg/m<sup>3</sup>

Ceiling limit value: 1800\* mg/m³ \*15-min

TLV (USA) Long-term value: 525 mg/m<sup>3</sup>, 100 ppm

(Contd. on page 3)

(Contd. of page 1)

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1330-20-7 xylene (mix)

PEL (USA) Long-term value: 435 mg/m³, 100 ppm

REL (USA) Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm

Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm TLV (USA)

## 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 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

hygeine.

Protective gloves. The glove material must be impermeable and resistant to the substance. Hand protection:

Eye protection: Tightly sealed goggles

### 9 Physical and chemical properties

Appearance: Aerosol. Odor: Aromatic Odor threshold: Not determined. Not determined. pH-value: . Melting point/Melting range Undetermined.

**Boiling point:** -44 °C (-47 °F) -19 °C (-2 °F) Extremely flammable. Flash point: Flammability (solid, gas): **Decomposition temperature:** Not determined.

Auto igniting: Product is not self-igniting.

In use, may form flammable/explosive vapour-air mixture. Danger of explosion:

Lower Explosion Limit: 1.5 Vol % 10.9 Vol % Upper Explosion Limit: Vapor pressure: Not determined.

**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: 602.6 g/l / 5.03 lb/gl

VOC content (less exempt solvents): 61.7 % MIR Value: 1.48 Solids content: 16.9 %

#### 10 Stability and reactivity

Reactivity: Stable at normal temperatures. (Contd. of page 2)

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(Contd. of page 3)

Conditions to avoid: Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing

temperatures.

Chemical stability: Possibility of hazardous reactions: Not fully evaluated. No dangerous reactions known.

Incompatible materials: Hazardous decomposition: No further relevant information available. No dangerous decomposition products known.

## 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)

8700 mg/kg (rat) LD50 Oral 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: Irritating effect.

No sensitizing effects known. Sensitization:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

108-88-3 Toluene 3 3 1330-20-7 xylene (mix)

### 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.

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 UN1950

DOT Consumer Commodity ORM-D

Aerosols, flammable

ADR 1950 Aerosols

Transport hazard class(es):

Class 2.1 Marine pollutant:

Special precautions for user: Warning: Gases

**EMS Number:** F-D,S-U

Packaging 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

7429-90-5 Aluminum flake

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

# 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 Domestice Substance List. (Contd. on page 5)

Trade name: ALUMINUM HI TEMP			
			(Contd. of page 4)
	EPA:		
	108-88-3	Toluene	II
		Acetone	I
		barium sulfate, natural	D, CBD(inh), NL(oral)
	1330-20-7	xylene (mix)	I

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