Printing date 07/08/2009 Reviewed on 07/08/2009

1 Identification of substance

Trade name: 010301 BLACK SILICONE COATING

Manufacturer/Supplier: **Design Engineering**

604 Moore Road Cleveland, OH 44012

phone: 800.264.9472 fax: 440.930.7967

www.DesignEngineering.com

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



Design Engineering, Inc.

2 Composition/Data on components

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

	Dangerous components:		
108-88-3	Toluene	25.01%	
74-98-6	propane	18.92%	
67-64-1	Acetone	17.2%	
106-97-8		11.11%	
	Silicon Dioxide	5.71%	
	VM&P Naphtha	4.6%	
	Iron Manganese Oxide Black	3.67%	
1330-20-7	xylene (mix)	2.01%	

3 Hazards identification

Hazard description:

Harmful

Extremely flammable

Extremely flammable liquid and vapor in a pressurized container. Keep away from heat, sparks, and Physical dangers:

flame.

Has narcotizing effect. Extremely flammable.

Irritating to respiratory system and skin.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Keep out of the reach of children.

Effects of chronic overexposure:

NFPA ratings (0 - 4):

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.

Health = Fire = Reactivity = 3

HMIS-ratings (0 - 4): Health=

Fire= Physical Hazard= 3

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.

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

After swallowing: Contact physician or poison control center.

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: No special measures required.

6 Accidental release measures

Personal safety: Wear protective equipment. Keep unprotected persons away. **Environmental safety:** Do not allow product to reach sewage systems or ground water.

Clean-up/collection: Ensure adequate ventilation.

7 Handling and storage

Fire/explosion protection: Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic

discharges.

Observe pressurized container storage regulations. Consult with your local authorities. Storage requirements:

USA

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8 Exposure controls and personal protection:

Components with limit values that require monitoring at the workplace:

108-88-3 Toluene

PEL Short-term value: C 300; 500* ppm Long-term value: 200 ppm

*10-min peak per 8-hr shift Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm

75 mg/m³, 20 ppm

74-98-6 propane

PEL 1800 mg/m³, 1000 ppm REL 1800 mg/m³, 1000 ppm TLV Varies mg/m³, 1000 ppm

67-64-1 Acetone

PEL | 2400 mg/m³, 1000 ppm REL | 590 mg/m³, 250 ppm

Short-term value: 1782 mg/m³, 750 ppm Long-term value: 1188 mg/m³, 500 ppm BEI

106-97-8 n-butane

REL 1900 mg/m³, 800 ppm TLV Varies mg/m³, 1000 ppm

1330-20-7 xylene (mix)

PEL 435 mg/m³, 100 ppm

Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm Short-term value: 651 mg/m³, 150 ppm REL Long-term value: 434 mg/m³, 100 ppm

Hygienic protection: Keep away from foodstuffs and animal feed. Wash hands after use.

Avoid contact with the skin.

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. Hand protection:

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

9 Physical and chemical properties:

General Information:

Odor: Aromatic **Boiling point:** -44°C -19°C Flash point: 365°C Ignition temperature:

Auto igniting: Product is not self-igniting.

Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120 Danger of explosion:

degrees fahrenheit.

In use, may form flammable/explosive vapour-air mixture.

Lower Explosion Limit: 1.5 Vol % 10.9 Vol % Upper Explosion Limit: Vapor Pressure: 40 PSI, 2750 hPa

Density:

Specific Gravity: Between 0.77 and 0.85 (Water equals 1.00)

VOC content: 800.5 g/l / 6.68 lb/gl

VOC content (less exempt solvents): 62.6 % Solids content: 20.0 %

10 Stability and reactivity:

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

Hazardous Reactions: No dangerous reactions known.

11 Toxicological information:

Skin effects: Irritant to skin and mucous membranes.

Eye effects: No irritating effect.

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(Contd. of page 2) Sensitization: No sensitizing effects known.

12 Ecological information

Other information: This product does not contain any chlorofluorocarbons (CFC's) or chlorinated solvents.

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

13 Disposal considerations

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: Completely empty can's should be recycled.

14 Transport information:

Hazard class: 2.1 N/A Identification number: 2.1 2 Label

5F Gases ADR/RID class: **UN-Number:** 1950

IMDG Class: Ш Packaging group: **EMS Number:** F-D,S-U Marine pollutant: No ICAO/IATA Class: 21

Propper shipping name: Aerosols, Flammable

Consumer Commodity ORM-D

15 Regulations

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 1330-20-7 xylene (mix)

7779-90-0 trizinc bis(orthophosphate)

TSCA: All ingredients are listed.

This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead. CPSC:

California Proposition 65 chemicals known to cause cancer:

14808-60-7 Silicon Dioxide 100-41-4 ethyl benzene 1333-86-4 Carbon black

California Proposition 65 chemicals known to cause

developmental toxicity: WHMIS Symbols for

Canada:

108-88-3 Toluene

A - Compressed gas

- Very toxic material causing other toxic effects



EPA: 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).

'Data are inadequate for an assessment of human carcinogeni potential.'

'Inadequate information to assess carcinogenic potential.

108-88-3	Toluene	Ш
67-64-1	Acetone	I
1330-20-7	xylene (mix)	I

IARC: 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
14808-60-7	Silicon Dioxide	1
1330-20-7	xylene (mix)	3

ACGIH: 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".

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108-88-3	Toluene	A4
67-64-1	Acetone	A4
14808-60-7	Silicon Dioxide	A2
	Iron Manganese Oxide Black	5 mg/m3
1330-20-7	xylene (mix)	A4

NIOSH: The following substances are regulated in the United States with reference to occupational exposure

limits:

14808-60-7 Silicon Dioxide 1333-86-4 Carbon black

Risk phrases:

Extremely flammable.

Irritating to respiratory system and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases:

Keep out of the reach of children.

Do not breathe gas/fumes/vapour/spray.

Do not empty into drains, dispose of this material and its container at hazardous or special waste

collection point

Wear suitable protective clothing and gloves.

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated areas.

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.

Contact: Regulatory Affairs

Abbreviations and

acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
PP: Severe Marine Pollutant
P: Marine Pollutant
P: Marine Pollutant
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
ISO: International Organization for Standardization
EPA: Environmental Protection Agency
IARC: International Agency for the Research of Cancer
NIOSH: National Institute for Occupational Safety and Health
TSCA: Toxic Substances Control Act
CPSC: Consumer Product Safety Commission