SAFETY DATA SHEET

Quantum Technical Services Ltd.

Section 1. Product and Company Identification

Product Name SafeCoat® Steel

Manufacturer Quantum Technical Services Ltd. (Dba Quantum Chemical)

15 Riel Drive

St. Albert, AB, Canada T8N 3Z2

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Chemical Emergencies For 24-Hour Emergency call Canutec at 613.996.6666

Section 2. Hazards Identification

2.1 Classification

Regulatory Status: This product contains Titanium Dioxide which is considered possibly hazardous

in its powder form. IARC lists TiO2 powder as 2B "possibly carcinogenic to humans" when it is inhaled as dust. All TiO2 in this product is dispersed in

liquid.

2.2 Label Elements:

Pictogram: None.
Signal Word: None.
Hazard Statements: None.
Precautionary Statements: None.

2.3 Other Hazards

Route of Entry Eye contact, skin contact, inhalation.

Eye Contact Like any foreign body, particles can cause mechanical irritation.

Skin Contact May cause transient reddening of the skin.

Skin Absorption Not available.

Inhalation (Acute) Inhalation of dust or mist can cause irritation of the eyes, nose, throat and lungs.

Ingestion No evidence of adverse effects from available information.

Section 3. Composition and Ingredient Information

Common Name CAS No. WT%

Titanium Dioxide 13463-67-7 10 to 30%

Note: Concentration ranges are given to protect proprietary information. No other hazardous ingredients above 1% concentration in this product.

Section 4. First Aid Measures

Eye Contact In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. Consult a physician if irritation continues.

Skin Contact In case of contact, immediately flush skin with plenty of soap and water.

Remove contaminated clothing. Wash clothing before reuse.

Inhalation If inhaled, remove to fresh air. If individual is having difficulty breathing or

respiratory irritation, seek medical attention.

Induce vomiting. Get medical attention.

Section 5. Fire Fighting Measures

Flash Point Non combustible.

Conditions of Flammability None.

Auto Ignition Temperature (C)
Upper Explosive Limit
Lower Explosive Limit
Not applicable.
Not applicable.

Hazardous Combustion Products

Sensitivity to Mechanical

Not applicable.

Sensitivity to Static

Impact

Discharge Not Applicable.

Special Fire Fighting

Procedures Firefighters should wear positive pressure, full-face, self-contained breathing

apparatus.

Section 6. Accidental Release Measures

Leak/Spill Small Absorb liquid with paper, vermiculite, floor absorbent or other absorbent

material.

Large Persons not wearing protective equipment should be excluded from area of spill

until cleanup is completed. Stop spill at source. Dike to prevent spreading. Pump

Oxides of carbon and mitrogen, hydrogen chloride, ammonia, phosphoric acid.

to salvage tank.

Section 7. Handling and Storage

Handling Procedures Avoid skin and eye contact. Avoid breathing dust. Remove contaminated

clothing before reuse. Maintain a good personal hygiene.

Storage Needs Keep from freezing. Storage temperature range minimum 10°C - maximum

35°C.

Section 8. Exposure Controls and Personal Protection.

Protective Equipment

Eye/Type Wear safety glasses.

Respiratory/Type If sprayed wear NIOSH/MSHA approved respirator.

Gloves/Type Use gloves impervious to soap and water.

Ventilation Requirements General room ventilation is expected to be satisfactory. Use local exhaust if

needed to control mist or vapour.

Exposure Limits to Titanium Dioxide (in powder form only)

This information pertains to exposure to and inhalation of TiO2 dust. In our opinion it does not apply to FireSheath Latex which has completely dispersed the TiO2 into the liquid.

PEL (OSHA) 15 mg/m3 8 hr TWA Total Dust

TLV (ACGIH) 10 mg/m3 TWA

Section 9. Physical and Chemical Properties

Physical State Liquid
Odor mild odor.
Specific Gravity 1.51

Odor Threshold (ppm) Not available.

Vapor Pressure (mm Hg) 17.5
Vapor Density (Air=1) <1
Evaporation Rate <1
Boiling Point 100°C
PH Neutral
Freezing Point (deg C) 0
% Volatile (weight) 24.1%

Section 10. Stability and Reactivity

Conditions of Instability Stable under normal conditions

Incompatibility No known materials
Reactivity Conditions No special reactivity

Hazardous products of

Decomposition None expected

Section 11. Toxicological Information

Carcinogenicity of TiO2

This information pertains to exposure to and inhalation of TiO2 dust. In our opinion it does not apply to this product which has completely dispersed the TiO2 into the liquid.

In lifetime inhalation studies, rats were exposed for 2 years to respectively 10, 50 and 250 mg/m3 of respirable TiO2. Slight lung fibrosis was observed at 50 and 250 mg/m3 levels. Microscopic lung tumours were also observed in 13 percent of the rats exposed to 250 mg/m3, an exposure level that caused lung overloading and impairment of rat lungs clearance mechanisms.

In further studies, these tumours were found to occur only under particle overload conditions in a uniquely sensitive species, the rat, and have little or no relevance for humans. The pulmonary inflammatory response to TiO2 particles exposure was also found to be much more severe in rats than in other rodent species.

In February 2006, IARC has re-evaluated Titanium dioxide pertaining to Group 2B: "possibly carcinogenic to humans", based upon inadequate evidence in humans and sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. IARC evaluation guidelines consider the generation of tumours, in 2 different studies within the same animal species, to be adequate criteria for an assessment of sufficient evidence.

The conclusions of several epidemiology studies on more than 20000 TiO2 industry workers in Europe and the USA did not suggest a carcinogenic effect of TiO2 dust on the human lung. Mortality from other chronic diseases, including other respiratory diseases, was also not associated with exposure to TiO2 dust.

Section 12. Ecological Information

Not Known.

Section 13. Disposal Considerations

Waste Disposal In accordance with municipal, provincial and federal regulations.

Section 14. Transport Information

DO NOT FREEZE.

T.D.G. Classification Non-regulated.

Section 15. Regulatory Information

NFPA Ratings Health 1 (Slight)

Fire 0 (Insignificant)

Reactivity. 0 (Insignificant)

Section 16. Other Information

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Prepared By: Quantum Technical Services Ltd.

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