



# Material Safety Data Sheet

WHMIS	Protective Clothing	TDG Road / Rail
		

## Section 1. Product Identification and Uses

<b>Product Name</b>	<b>76327 Stainless Steel Coating</b>	<b>CI#</b>	Not applicable.
<b>Synonyms</b>	Not available.	<b>DSL</b>	Not available.
<b>Chemical Name</b>	Not applicable.	<b>CAS #</b>	Not applicable.
<b>Chemical Formula</b>	Chemical mixture.	<b>Code</b>	1515-07-001
<b>Chemical Family</b>	Solvent blend and Alloy mixture.	<b>Molecular Weight</b>	Not applicable.
<b>Supplier</b>	Osborn International 5401 Hamilton Avenue, Cleveland, Ohio, U.S.A. 44114 PHONE: (216) 361-1900	<b>Manufacturer</b>	Manufactured for: Osborn International
<b>Material Uses</b>	Stainless steel coating.		

## Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>
1) Iron	7439-89-6	1-5	Not available.
2) Chromium	7440-47-3	0.1-0.8	Not available.
3) Nickel	7440-02-0	0.1-0.8	ORAL (LD50): Acute: 9000 mg/kg [Rat].
4) Manganese	7439-96-5	0.04-0.1	Not available.
5) Acetone	67-64-1	30-60	ORAL (LD50): Acute: 9750 mg/kg [Rat]. DERMAL (LD50): Acute: 20000 mg/kg [Rabbit]. VAPOR (LC50): Acute: 16000 ppm 4 hour(s) [Rat].
6) Toluene	108-88-3	10-30	ORAL (LD50): Acute: 5000 mg/kg [Rat]. DERMAL (LD50): Acute: 14000 mg/kg [Rabbit]. VAPOR (LC50): Acute: 8000 ppm 4 hour(s) [Rat].
7) Xylene	1330-20-7	5-15	ORAL (LD50): Acute: 4300 mg/kg [Rat]. 6100 mg/kg [Rat].
8) Ethylbenzene	100-41-4	0.1-0.5	ORAL (LD50): Acute: 3500 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].
9) 1,2,4-Trimethylbenzene	95-63-6	0.05-0.1	ORAL (LD50): Acute: 5000 mg/kg [Rat].
10) Liquefied petroleum gas	68476-85-7	30-60	Not available.

## Section 3. Physical Data

<b>Physical State and Appearance</b>	Liquid (Aerosol Concentrate).	<b>Odor</b>	Characteristic.
<b>pH (1% Soln/Water)</b>	Not available.	<b>Taste</b>	Not available.
<b>Odor Threshold</b>	The highest known value is 2.14 ppm (Toluene) Weighted average: 2.08 ppm	<b>Color</b>	Silver White to gray
<b>Volatility</b>	Not available.		
<b>Evaporation Rate</b>	Not available.		
<b>Melting Point</b>	Not available.		
<b>Boiling Point</b>	The lowest known value is 56°C (133°F) (Acetone).		
<b>Density</b>	0.748 @ 20°C (Water = 1)		
<b>Vapor Density</b>	Greater than 1 (Air = 1)		
<b>Vapor Pressure</b>	Not available.		
<b>LogK<sub>ow</sub></b>	Not available.		

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<b>Ionicity (Surface Active Agent)</b>	Not available.
<b>Critical Temperature</b>	Not available.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	No additional remark.
<b>Dispersion Properties</b>	See solubility in water.
<b>Solubility</b>	Insoluble in water.



### Section 4. Fire and Explosion Data

<b>The Product is:</b>	Extremely Flammable Aerosol
<b>Auto-ignition Temperature</b>	464°C (867.2°F) based on data for: Xylene.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), some metallic oxides, hydrogen chloride, traces of phosgene and other irritating gases.
<b>Flash Points</b>	The lowest known value is CLOSED CUP: -17.8°C (0°F). (Tagliabue.). (Acetone)
<b>Flammable Limits</b>	LOWER: 1.2% ( Toluene) UPPER: 7.1% ( Toluene)
<b>Extinguishing Media</b>	Extremely Flammable Aerosol, liquid is insoluble in water. SMALL FIRE: Use DRY chemicals, CO <sub>2</sub> or alcohol foam. <b>**DO NOT USE WATER!**</b> LARGE FIRE: Use alcohol foam. <b>**DO NOT USE WATER!**</b> Water only to be used to cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. Avoid spreading burning liquid with water used to cool containers. Self-contained respiratory protection should be provided for firefighters. Hydrogen gas may form if this product comes in contact with water producing an explosive environment.
<b>Flammability</b>	The flammability of an aerosol by WHMIS definition is determined by its flame-extension or its flashback. The flame-extension of this product is greater than 45 cm. FIRE CODE: Level 3 Aerosol (as per NFPA 30B). Do not use in the presence of open flame or spark. Do not place in hot water or near radiators, stoves or other sources of heat.
<b>Risks of Explosion</b>	Risk of explosion of the product in presence of mechanical impact: Do not subject aerosol cans to impact. Risk of explosion of the product in the presence of static discharge: Aerosol spray may be sensitive to static discharge due to flammable concentrate and flammable propellant. Vapours of this product may form a flammable/explosive mixture with air in enclosed areas when vapours present are between the lower (1.0%) and upper (12.6%) flammable limits and come into contact with open flames, sparks or static discharge. Do NOT expose aerosol containers to open flames, heat or ignition sources. Container may explode if heated.

### Section 5. Reactivity

<b>Stability</b>	The product is stable.
<b>Hazardous Decomposition Products</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), some metallic oxides, hydrogen chloride, traces of phosgene and other irritating gases.
<b>Degradability</b>	Not available.
<b>Products of Degradation</b>	Not available. Not available. Not available.
<b>Corrosivity</b>	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
<b>Reactivity</b>	Avoid contact with strong oxidizing agents, strong acids and strong alkalis. Keep away from heat, sparks, open flame and all possible ignition sources.

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**Instability Temperature** Not available.

**Conditions of Instability** No additional remark.

## Section 6. Toxicological Properties

**Routes of Entry** Inhalation. Ingestion. Eye contact. Skin contact.

**TLV**

**Toluene**  
TWA: 50 CEIL: 150 (ppm)  
TWA: 375 CEIL: 560 (mg/m<sup>3</sup>)

**Acetone**  
TWA: 750 (ppm)

**Xylene**  
TWA: 100 CEIL: 150 (ppm)  
TWA: 435 CEIL: 655 (mg/m<sup>3</sup>)

**Ethylbenzene**  
TWA: 100 CEIL: 125 (ppm)  
TWA: 435 CEIL: 545 (mg/m<sup>3</sup>)

**Liquefied petroleum gas**  
TWA: 1000 CEIL: 1250 (ppm)  
TWA: 1800 CEIL: 2250 (mg/m<sup>3</sup>)

Consult local authorities for acceptable exposure limits.

**Toxicity to Animals**

Acute oral toxicity (LD50): 9750 mg/kg [Rat] (Acetone).  
Acute oral toxicity (LD50): 5000 mg/kg [Rat] (Toluene).  
Acute oral toxicity (LD50): 4300 mg/kg [Rat]. (Xylene).  
Acute dermal toxicity (LD50): 20000 mg/kg [Rabbit]. (Acetone).  
Acute dermal toxicity (LD50): > 5000 mg/kg (Rabbit) (Toluene).  
Acute dermal toxicity (LD50): 5000 mg/kg (Rabbit) (Ethylbenzene).  
Acute toxicity of the vapor (LC50): 16000 ppm [Rat] (Acetone).  
Acute toxicity of the vapor (LC50): > 5000 ppm (Rat) (Toluene).  
Acute toxicity of the vapor (LC50): 5000 ppm (Rat) (Xylene).

**Chronic Effects on Humans**

Prolonged or repeated skin contact may lead to dermatitis & skin sensitization.  
Chronic exposure may effect the central nervous system & respiratory system, liver and kidneys.  
May also cause permanent damage to the central nervous system.

**Acute Effects on Humans**



**EYE CONTACT:** May cause irritation, redness and tearing. This product is an eye irritant.  
**SKIN CONTACT:** May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to skin sensitization.  
**INHALATION:** Vapours may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapours may cause Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache, narcosis, euphoria, pupil dilation and possible unconsciousness.  
**INGESTION:** May cause gastrointestinal irritation, Central Nervous System effects (see inhalation), nausea, vomiting, diarrhea, kidney and liver damage. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.  
Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact.

**Synergetic Products (Toxicologically)** Not available.

**Irritation/Corrosivity** See acute effects on humans.

**Sensitization** Not available.

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<b>Carcinogenic Effects</b>	Ethyl Benzene is classified by IARC (International Agency for Research on Cancer) as possibly carcinogenic to humans (Class 2B). Nickel metal is listed as carcinogenic to humans by the IARC (International Agency for Research on Cancer) (Group 1); and by the National Toxicology Program (List 2). Chromium (VI) compounds are listed as carcinogenic to humans by the IARC (International Agency for Research on Cancer) (Group 1); and by the National Toxicology Program. This product contains Chromium in the metallic state, rather than the hexavalent compounds noted prior. There is no information available on this specific stainless steel alloy.
<b>Toxic Effects on Reproduction</b>	This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
<b>Teratogenic Effects</b>	Not available.
<b>Mutagenic Effects</b>	Not available.

## Section 7. Preventive Measures



<b>Small Spill and Leak</b>	Ventilate area and eliminate sources of ignition. Absorb with an inert DRY material and place in an appropriate waste disposal container. It is recommended that safety glasses and chemical resistant gloves be worn to clean up spills.
<b>Personal Protective Equipment</b>	Eye protection, chemical resistant gloves and coveralls. Be sure to use a MSHA/NIOSH approved respirator or equivalent when ventilation is inadequate.
<b>Large Spill and Leak</b>	Not applicable for aerosol containers.
<b>Protective Clothing</b>	Not applicable for aerosol containers.
<b>Engineering Controls</b>	Use under well-ventilated conditions.
<b>Precautions</b>	Contents under pressure. Container may explode if heated. Direct inhalation of spray may be harmful. Keep out of reach of children.
<b>Storage</b>	Store in a cool, dry place. Do not place in hot water or near radiators, stoves or other sources of heat. Do not puncture or incinerate container or store at temperatures over 50°C or in direct sunlight.
<b>Handling</b>	Do not use in the presence of open flame, sparks or ignition sources. Keep away from heat. Avoid breathing vapours or spray mists. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
<b>Waste Disposal</b>	Recycle to process, if possible. Consult your local or regional authorities. Do not dispose in sewers. When container is empty, press button to release all pressure, then dispose of in garbage can.
<b>Special Shipping Information</b>	Not available.



## Section 8. First Aid

<b>Eye Contact</b>	Flush eyes with plenty of running water for at least 15 minutes, lifting upper and lower lids, occasionally. If irritation persists, consult physician.
<b>Skin Contact</b>	Wash thoroughly with soap and water. If irritation develops, get medical attention. Remove contaminated clothing and wash before reuse.
<b>Hazardous Skin Contact</b>	No additional information.
<b>Slight Inhalation</b>	Remove affected person to fresh air. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Get medical attention.
<b>Hazardous Inhalation</b>	No additional information.
<b>Slight Ingestion</b>	If swallowed, call physician or poison control centre immediately. DO NOT induce vomiting. Rinse mouth with water. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal.

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**Hazardous Ingestion** No additional information.

**Section 9. MSDS Preparation**

**References** Not available.

No additional remark.


Validated by Company on 3/28/2006.	Verified by Company.
	Printed 3/28/2006.

**Emergency Phone: (905) 677-1948**

**Responsible Name/ Telephone No.**

**Classification**

TDG Road / Rail CONSUMER COMMODITY. ORM-D  Not applicable.	
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WHMIS WHMIS CLASS A: Compressed gas. WHMIS CLASS B-5: Flammable aerosol. WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).	
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