

# MATERIAL SAFETY DATA SHEET

Page.1 of 4

**PRODUCT NAME:** RUSTGARD 50

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## SECTION I – PRODUCT INFORMATION

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**MANUFACTURE'S NAME:** ALEXANDER TOOLS LIMITED.  
35 GLEN ROAD.  
HAMILTON, ONTARIO, L8S 3M6

**EMERGENCY TELEPHONE:** 905-527-6234

**PRODUCT NAME:** RUSTGARD 50  
**PRODUCT USE:** WATER SOLUBLE CORROSION INHIBITOR FOR FERROUS METALS

**SHIPPING NAME:** NON-REGULATED      **P.I.N. #:**      **CLASSIFICATION:**

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## SECTION II – HAZARDOUS INGREDIENTS

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INGREDIENTS	CAS REG. NUMBER	CONC. % w/w	TLV	LD50	LC50
TRIETHANOLAMINE	102-71-6	10-30%		LD50 oral (RAT)=8680 mg/kg.	
DIETHANOLAMINE	111-42-2	1-5%	TLV= 15 mg/cu.m.	LD50 oral (rat)=710 mg/kg.	
SODIUM NITRITE	7632-00-0	5-10%		LD50 oral (rat)=85 mg/kg.	TLV = 10 PPM AS DUST

### RISK PHRASES

**DESCRIPTION:** NON-REGULATED

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## SECTION III – PHYSICAL DATA

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<b>PHYSICAL STATE:</b> LIQUID	<b>SPECIFIC GRAVITY:</b> 1.075
<b>APPEARANCE:</b> GREEN	<b>VAPOUR PRESSURE:</b> UK
<b>ODOUR:</b> SLIGHT	<b>VAPOUR DENSITY:</b> UK
<b>ODOUR THRESHOLD:</b> UK	<b>EVAPORATION RATE:</b> (WATER=1) 1
<b>pH ( as is ): 10.9</b>	<b>BOILING POINT:</b> 100°C.
<b>SOLUBILITY:</b> WATER	<b>FREEZING POINT:</b> 0°C.

**N/A = NOT APPLICABLE**

**UK = UNKNOWN**

October 22, 2007

Page.2 of 4

**PRODUCT NAME:** RUSTGARD 50

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SECTION IV – FIRE OR EXPLOSION HAZARD

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**FLASH POINT:** NONE                      **METHOD:** COC/ CCC  
**FLAMMABILITY LIMITS IN AIR: LOWER:** N/A      **UPPER:** N/A  
**AUTO-IGNITION TEMPERATURE:** N/A  
**CONDITIONS OF FLAMMABILITY:** N/A  
**EXTINGUISHING MEDIA:** WATER, MIST

**HAZARDOUS COMBUSTION PRODUCTS:** TOXIC FUMES OF NITRIC OXIDES

**SPECIAL FIRE FIGHTING PROCEDURES:** CONTAINED OXYGEN SUPPLY

**EXPLOSION DATA**            - **SENSITIVITY TO MECHANICAL IMPACT:** NO  
   - **SENSITIVITY TO STATIC DISCHARGE:** NO

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SECTION V – REACTIVITY DATA

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**STABILITY:** STABLE                      **CONDITIONS TO AVOID:** NONE

**INCOMPATIBILITY (MATERIALS TO AVOID):** ACIDS (NITRIC OXIDE FUMES)

**CONDITIONS OF REACTIVITY:** UK

**HAZARDOUS DECOMPOSITION PRODUCTS:** NITRIC OXIDES

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SECTION VI – FIRST AID MEASURES

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**EMERGENCY FIRST AID PROCEDURE:** GET MEDICAL ATTENTION

**EYE CONTACT:** FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MIN.  
LIFT THE UPPER AND LOWER EYELID. IF IRRITATION CONTINUES GET  
MEDICAL ATTENTION.

**SKIN CONTACT:** WASH WITH SOAP AND WATER. FLUSH WITH FRESH  
WATER. LAUNDER CONTAMINATED CLOTHING BEFORE RE-WARRING.

**INHALATION:** MOVE TO FRESH AIR

**INGESTION:** DRINK LARGE VOLUMES OF MILK OR WATER. INDUCE  
VOMITING. GET MEDICAL ATTENTION RIGHT AWAY.

October 22, 2007

Page.3 of 4

**PRODUCT NAME:** RUSTGARD 50

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SECTION VII – TOXICOLOGICAL PROPERTIES

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**ROUTE OF ENTRY--**      **EYE CONTACT:** STRONG IRRITATION  
**INHALATION:** IRRITATION, HEADACHES  
**INGESTION:** nausea, vomiting, cyanosis, collapse and coma.  
**SKIN CONTACT:** IRRITATION  
**SKIN ABSORPTION:** UK

**EFFECTS OF EXPOSURE TO PRODUCT-**

**ACUTE:** Depending on quantity ingested, nausea, headaches, vomiting may occur. Irritation of the eyes will occur if not flushed promptly.

**CHRONIC:** Repeated ingestion may cause blood pressure drop, rapid pulse, headaches and visual disturbances. Some implication of increased cancer incidence associated with ingestion.

**EXPOSURE LIMITS:** UK

**IRRITANCY:** MILD

**SENSITIZATION:** NOT KNOWN

**CARCINOGENICITY:** NITROSAMINES MAY BE FORMED UNDER HIGH TEMPERATURE  
(++100°C.)

**TERATOGENICITY:** NO

**MUTAGENICITY:** NO

**REPRODUCTIVE TOXICITY:** NO

**NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** UK

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SECTION VIII – PREVENTIVE MEASURES

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**PERSONAL PROTECTIVE EQUIPMENT:**

**EYES-** SAFETY GLASSES WITH SIDE SHIELDS

**HANDS-** RUBBER OR NEOPRENE GLOVES

**OTHER PROTECTIVE EQUIPMENT-** EYE WASH STATION

**RESPIRATOR TYPE-** FOR MISTING, IF SPRAYED.

**SPECIFIC ENGINEERING CONTROLS:**

**VENTILATION REQUIREMENTS-**      **GENERAL:** Yes

- **OTHERS:** EXHAUST FOR SPRAYED SOLUTIONS.

October 22, 2007

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## SECTION VIII – PREVENTIVE MEASURES

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**PROCEDURES TO BE FOLLOWED IN CASE OF A LEAK OR SPILL:** Mop up spills. Wash area with water into a waste treatment system.

**WASTE DISPOSAL:** All waste disposal should comply with all Federal and Provincial Regulations.

**DSL LIST:** All the ingredients in this product are found in the Canadian DSL List.

**STORAGE REQUIREMENTS:** Store in original, upright drum away from excess heat or cold.

**HANDLING PROCEDURES:** Product can be toxic if ingested. Wear proper safety equipment, when handling the concentrate. Use proper hygiene after handling chemicals. Do not wear contact lenses when handling chemicals. Do not smoke or eat while handling chemicals.

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## SECTION IX – PREPARATION INFORMATION

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**PREPARED BY:** SAFETY DEPARTMENT  
**DATE PREPARED:** June 26, 2004  
**DATE REVISED:** October 22, 2007  
**TELEPHONE NUMBER:** 905-527-6234

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