

WOODRISING RESOURCES LTD.  
#2 321 37 AVE. N.E.  
CALGARY, ALBERTA  
CANADA T2E 6P6  
403-216-2130

PRODUCT: PARATENE® D-770

CODE: 241008

**Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MANUFACTURER/SUPPLIER..... WOODRISING RESOURCES LTD.  
#2 321 37 AVE. N.E.  
CALGARY, ALBERTA  
CANADA T2E 6P6  
403-216-2130

PREPARED BY..... Regulatory Affairs  
PREPARATION DATE..... Sep10/08  
PRODUCT NAME..... PARATENE® D-770  
PRODUCT CODE..... 241008  
CHEMICAL FORMULA..... BLEND.  
MOLECULAR WEIGHT..... N.AV.  
MATERIAL USE..... REFER TO TECHNICAL LITERATURE.  
EMERGENCY PHONE NO..... 403-216-2130 .... between the hours of 9:00 and 17:00 MST.

**Section 02: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
POTASSIUM HYDROXIDE	3-7	SEE SECTION 11	1310-58-3	SEE SECTION 11	SEE SECTION 11
1-METHYL-2-PYRROLIDONE (NMP)	5-10	SEE SECTION 11	872-50-4	SEE SECTION 11	SEE SECTION 11

**Section 03: HAZARDS IDENTIFICATION**

ROUTE OF ENTRY:  
SKIN CONTACT..... CORROSIVE. CONTACT WITH CONCENTRATED SOLUTIONS MAY CAUSE SERIOUS BURNS TO HUMAN TISSUE.

SKIN ABSORPTION..... N.AV.  
EYE CONTACT..... CORROSIVE. WILL CAUSE SEVERE TO PERMANENT INJURY.  
INHALATION..... VAPOURS MAY CAUSE INJURY TO RESPIRATORY TRACT.  
INGESTION..... CORROSIVE. DAMAGES THROAT AREA AND GASTRO- RESPIRATORY TRACT.  
EFFECTS OF ACUTE EXPOSURE..... REFER TO ROUTE OF ENTRY.  
EFFECTS OF CHRONIC EXPOSURE..... WILL DAMAGE HUMAN TISSUE ON CONTACT.

**Section 04: FIRST AID MEASURES**

INSTRUCTIONS:..... IN CASE OF INHALATION, REMOVE TO FRESH AIR. AID IN BREATHING IF NECESSARY. SEEK MEDICAL ATTENTION. IN CASE OF SKIN CONTACT, REMOVE CONTAMINATED CLOTHING AND RINSE SKIN WITH WATER FOR 15 MINUTES. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION. EYE CONTACT: FLUSH EYES WITH LARGE AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYE AND LIDS WITH WATER. SEEK MEDICAL ATTENTION URGENTLY, PREFERABLY FROM AN OPHTHALMOLOGIST. IN CASE OF INGESTION, GIVE LARGE QUANTITIES OF WATER OR MILK. DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

**Section 05: FIRE FIGHTING MEASURES**

FLAMMABILITY..... SEE FLASH POINT.  
IF YES, UNDER WHICH CONDITIONS?..... IN THE PRESENCE OF AN IGNITION SOURCE.  
EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL.  
SPECIAL PROCEDURES..... FIREFIGHTERS AND OTHERS WHO MAY BE EXPOSED TO PRODUCTS OF COMBUSTION SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING SELF-CONTAINED BREATHING APPARATUS.

FLASH POINT (C), METHOD..... >100.  
AUTO IGNITION TEMPERATURE..... N.AV.  
UPPER FLAMMABLE LIMIT (% BY VOL.).... N.AV.  
LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AV.  
EXPLOSION DATA..... N.AV.  
EXPLOSIVE POWER..... N.AV.  
RATE OF BURNING..... N.AV.  
SENSITIVITY TO STATIC DISCHARGE..... N.AV.  
SENSITIVITY TO IMPACT..... N.AV.

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**Section 05: FIRE FIGHTING MEASURES**

UNUSUAL FIRE AND EXPLOSION HAZARDS ..... THS MATERIAL IS CORROSIVE. IT MAY REACT VIOLENTLY WITH MANY ORGANIC CHEMICALS. POTASSIUM HYDROXIDE REACTS WITH ZINC, ALUMINUM, TIN, AND OTHER ACTIVE METALS LIBERATING FLAMMABLE HYDROGEN GAS.

HAZARDOUS COMBUSTION PRODUCTS.. N.AV.

**Section 06: ACCIDENTAL RELEASE MEASURES**

LEAK/SPILL..... ISOLATE AREA. AVOID DIRECT CONTACT WITH MATERIAL. WEAR PROTECTIVE EQUIPMENT. WEAR NIOSH/MSHA APPROVED RESPIRATOR (SELF-CONTAINED BREATHING APPARATUS PREFERRED) IF REQUIRED. CONTAIN THE SPILL. PREVENT RUNOFF INTO DRAINS, SEWERS, AND OTHER WATERWAYS. AVOID SPLASHING OR MISTING WHICH COULD INCREASE HEALTH HAZARDS. COLLECT INTO A SUITABLE CONTAINER.

**Section 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND EQUIPMENT ..... AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING VAPOR OR MIST. AVOID INGESTION. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE WITH ADEQUATE VENTILATION. MAINTAIN A GOOD PERSONAL HYGIENE. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

STORAGE NEEDS..... CONTAINERS SHOULD BE STORED IN A COOL, DRY, WELL VENTILATED AREA. STORE AWAY FROM INCOMPATIBLE MATERIALS. STORE AWAY FROM ALL SOURCES OF HEAT AND IGNITION.

**Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

GLOVES/ TYPE..... CHEMICAL IMPERVIOUS GLOVES. CONTACT GLOVE MANUFACTURER FOR SPECIFIC INFORMATION.

RESPIRATORY/TYPE..... IF MIST OR VAPOURS FORMATION SHOULD OCCUR, USE A NIOSH APPROVED RESPIRATOR.

EYE/TYPE..... SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD.

FOOTWEAR/TYPE..... CHEMICAL RESISTANT.

CLOTHING/TYPE..... AVOID CONTACT WITH SKIN. CHEMICAL RESISTANT CLOTHING.

OTHER/TYPE..... EYE BATH AND SAFETY SHOWER.

ENGINEERING CONTROLS..... PROVIDE SUFFICIENT VENTILATION TO CONTROL EXPOSURE LEVELS BELOW AIRBORNE EXPOSURE LIMITS.

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... VISCOUS LIQUID.

ODOUR..... CHARACTERISTIC.

ODOUR THRESHOLD..... N.AV.

VAPOUR PRESSURE (MMHG)..... N.AV.

VAPOUR DENSITY (AIR=1)..... N.AV.

EVAPORATION RATE..... N.AP.

BOILING POINT..... 100-202 C.

PH..... 14.

SPECIFIC GRAVITY (WATER=1)..... 1.08.

SOLUBILITY IN WATER (% W/W)..... SOLUBLE.

COEFFICIENT OF WATER/OIL DIST..... N.AV.

**Section 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY:  
YES..... YES.

NO, WHICH CONDITIONS?  
COMPATABILITY WITH OTHER  
SUBSTANCES:  
YES  
NO, WHICH ONES?..... ORGANICS, METALS, NITROCARBONS, HALOCARBONS. STRONG OXIDIZING AGENTS. STRONG ACIDS.

CONDITIONS TO AVOID:..... POTASSIUM HYDROXIDE: CONTACT WITH METALS SUCH AS ALUMINUM, ZINC AND TIN.

HAZARDOUS PRODUCTS OF DECOMPOSITION ..... OXIDES OF CARBON (CO,CO2). OXIDES OF NITROGEN.

NOTE..... FLAMMABLE HYDROGEN GAS MAY BE GENERATED WHEN POTASSIUM HYDROXIDE AND CERTAIN METALS REACT.

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

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**Section 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMIT OF MATERIAL..... POTASSIUM HYDROXIDE: 2 MG/M3 (ACGIH TLV).  
 LC 50 OF MATERIAL, SPECIES & ROUTE.. 1-METHYL-2-PYRROLIDONE: >5.1 MG/L/4 HR (INHALATION-RAT). POTASSIUM  
 HYDROXIDE: N.AV.  
 LD 50 OF MATERIAL, SPECIES & ROUTE.. 1-METHYL-2-PYRROLIDONE: 4990 MG/KG ORAL-RAT. POTASSIUM HYDROXIDE: 365  
 MG/KG.  
 CARCINOGENICITY OF MATERIAL..... NONE.  
 TERATOGENICITY..... 1-METHYL-2-PYRROLIDONE (NMP):. IN ANIMAL STUDIES NMP WAS EMBRYOTOXIC  
 BY ORAL AND INTRAPERITONEAL ROUTES AT HIGH DOSE LEVELS. ATTRIBUTED  
 TO MATERNAL TOXICITY.  
 MUTAGENICITY..... NEGATIVE.  
 REPRODUCTIVE EFFECTS..... N.AV.  
 IRRITANCY OF MATERIAL..... SEE SECTION 03.  
 SENSITIZING CAPABILITY OF MATERIAL. N.AV.  
 SYNERGISTIC MATERIALS..... N.AV.

**Section 12: ECOLOGICAL CONSIDERATIONS**

ECOLOGICAL TOXICITY..... MAY BE HARMFUL TO AQUATIC LIFE.

**Section 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, PROVINCIAL, AND  
 LOCAL ENVIRONMENTAL REGULATIONS. CONTAINERS SHOULD BE CLEANED OF  
 RESIDUAL PRODUCT BEFORE DISPOSAL.

**Section 14: TRANSPORT INFORMATION**

UN NUMBER..... 1760.  
 TDG CLASSIFICATION..... 8.  
 PACKING GROUP..... II.  
 SPECIAL SHIPPING INSTRUCTIONS..... N.AP.

**Section 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION..... D2B, E.  
 CPR COMPLIANCE..... THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD  
 CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION  
 REQUIRED BY THE CPR.

**Section 16: OTHER INFORMATION**

N.AV.=NOT AVAILABLE  
 N.AP.=NOT APPLICABLE