

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

PRODUCT: PARATENE® SHP

CODE: 240316

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..... Sep12/08
PRODUCT NAME..... PARATENE® SHP
PRODUCT CODE..... 240316
CHEMICAL FORMULA..... BLEND.
CHEMICAL FAMILY..... BLEND.
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
HYDROGEN PEROXIDE	7-13	SEE SECTION 11	7722-84-1	SEE SECTION 11	SEE SECTION 11

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... REPEATED OR PROLONGED DERMAL EXPOSURE CAN CAUSE SEVERE IRRITATION AND/OR BURNS CHARACTERIZED BY REDNESS, SWELLING AND SCAB FORMATION.

SKIN ABSORPTION..... N.AV.
EYE CONTACT..... SEVERE IRRITATION AND/OR BURNS CAN OCCUR FOLLOWING EYE EXPOSURE. LIQUID CAN CAUSE SEVERE IRRITATION, REDDENING, SWELLING AND CORNEAL BURNS.

INHALATION..... OVEREXPOSURE BY INHALATION MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY PASSAGES OR NONSPECIFIC DISCOMFORT SUCH AS NAUSEA, HEADACHE OR WEAKNESS. PROLONGED CONTACT CAN BE CORROSIVE TO THE NOSE, THROAT AND LUNGS.

INGESTION..... INGESTION CAN CAUSE IRRITATION OF THE UPPER GASTROINTESTINAL TRACT WITH PAIN AND DISTENTION OF THE STOMACH AND ESOPHAGUS DUE TO LIBERATION OF OXYGEN.

EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE..... INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE SKIN, EYES, OR LUNGS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES. NOTE:.. CONTAINS HYDROGEN PEROXIDE. INGESTION MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT WITH UPPER ABDOMINAL PAIN, "HEARTBURN", NAUSEA, VOMTING, AND DIARRHES. "COFFEE GROUNDS" VOMITUS AND BLACK TARRY STOOLS MAY OCCUR AS A RESULT OF GASTROINTESTINAL TRACT BLEEDING. ADDITIONAL EFFECTS FROM OVEREXPOSURE INCLUDE RED BLOOD CELL DESTRUCTION, OR GAS EMBOLISM. WHEN USED AS COLONIC LAVAGE, HYDROGEN PEROXIDE HAS CAUSED GAS EMBOLISM AND GANGRENE OF THE INTESTINE AT CONCENTRATIONS DOWN TO 0.75%. GROSS OVEREXPOSURE BY INGESTION MAY BE FATAL.

Section 04: FIRST AID MEASURES

INSTRUCTIONS:..... INHALATION:.. IF INHALED, IMMEDIATELY REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. OBTAIN MEDICAL ATTENTION. SKIN CONTACT:.. IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET PROMPT MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING AND SHOES PROMPTLY AND THOROUGHLY. EYE CONTACT:.. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION URGENTLY, PREFERABLY FROM AN OPHTHALMOLOGIST. INGESTION:.. IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET PROMPT MEDICAL ATTENTION.

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Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY.....	SEE FLASH POINT.
IF YES, UNDER WHICH CONDITIONS?.....	WILL NOT BURN, BUT DECOMPOSITION, WHICH MAY BE CAUSED BY HEAT OR CONTAMINATION WILL RELEASE OXYGEN WHICH WILL INCREASE THE EXPLOSIVE LIMIT RANGE AND BURNING RATE OF FLAMMABLE VAPORS.
EXTINGUISHING MEDIA.....	USE ONLY WATER.
SPECIAL PROCEDURES.....	FLOOD WITH WATER. COOL TANK/CONTAINER WITH WATER SPRAY. WEAR FULL PROTECTIVE CLOTHING (RUBBER SUIT AND BOOTS) INCLUDING CHEMICAL SPLASH GOGGLES OR HOOD AND SELF-CONTAINED BREATHING APPARATUS.
FLASH POINT (C), METHOD.....	WILL NOT BURN.
AUTO IGNITION TEMPERATURE.....	N.AP.
UPPER FLAMMABLE LIMIT (% BY VOL.)....	N.AP.
LOWER FLAMMABLE LIMIT (% BY VOL.)...	N.AP.
EXPLOSION DATA.....	N.AV.
EXPLOSIVE POWER.....	N.AV.
RATE OF BURNING.....	N.AV.
SENSITIVITY TO STATIC DISCHARGE.....	N.AV.
SENSITIVITY TO IMPACT.....	N.AV.
UNUSUAL FIRE AND EXPLOSION HAZARDS.....	MAY ACT AS OXIDIZER. (OXIDIZERS IN CONTACT WITH CLOTHING OR COMBUSTIBLES MAY CAUSE FIRE. EFFECTS MAY BE DELAYED. CONTACT WITH ORGANIC LIQUIDS OR VAPOURS MAY CAUSE FIRE OR EXPLOSION, ESPECIALLY IF HEATED. RELEASE FROM HYDROGEN PEROXIDE MAY FORCE ORGANIC OR HYDROGEN VAPOURS INTO AN EXPLOSIVE RANGE.).
HAZARDOUS COMBUSTION PRODUCTS..	SEE HAZARDOUS DECOMPOSITION PRODUCTS.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL.....	NOTE: REVIEW FIRE AND EXPLOSION HAZARDS AND SAFETY PRECAUTIONS BEFORE PROCEEDING WITH CLEAN UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP. FLUSH AREA WITH WATER, CONTAIN RUNOFF AND DISPOSE OF WASTE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE/PROVINCIAL, AND LOCAL ENVIRONMENTAL LAWS AND REGULATIONS. USE PLENTY OF WATER. NOTE:.. RESIDUAL HYDROGEN PEROXIDE THAT IS ALLOWED TO DRY (UPON EVAPORATION HYDROGEN PEROXIDE CAN CONCENTRATE) ON ORGANIC MATERIALS SUCH AS PAPER, FABRICS, COTTON, LEATHER, WOOD OR OTHER COMBUSTIBLES CAN CAUSE THE MATERIAL TO IGNITE AND RESULT IN A FIRE.
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Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT.....	AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID INGESTION. AVOID INHALING. AVOID CONTACT WITH SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. MAINTAIN A GOOD PERSONAL HYGIENE. WASH CONTAMINATED CLOTHING BEFORE RE-USE. USE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH FLAMMABLE OR COMBUSTIBLE MATERIALS. AVOID CONTAMINATION FROM ANY SOURCE INCLUDING METALS, DUST, AND ORGANIC MATERIALS. NEVER USE PRESSURE TO EMPTY DRUMS - CONTAINER IS NOT A PRESSURE VESSEL. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.
STORAGE NEEDS.....	STORE IN A PROPERLY VENTED CONTAINER OR IN APPROVED BULK STORAGE FACILITIES. DO NOT STORE WHERE CONTACT WITH INCOMPATIBLE MATERIALS COULD OCCUR, EVEN WITH A SPILL. RINSE EMPTY CONTAINERS THOROUGHLY WITH CLEAN WATER BEFORE DISCARDING. KEEP OUT OF SUNLIGHT.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE.....	IMPERVIOUS GLOVES. CONSULT GLOVE MANUFACTURER TO DETERMINE APPROPRIATE TYPE OF GLOVE FOR GIVEN APPLICATION.
RESPIRATORY/TYPE.....	WHERE THERE IS A POTENTIAL FOR AIRBORNE EXPOSURE IN EXCESS OF APPLICABLE LIMITS. WEAR NIOSH/MSHA APPROVED RESPIRATORY PROTECTION.
EYE/TYPE.....	WEAR COVERALL CHEMICAL SPLASH GOGGLES. WHERE THE POSSIBILITY EXISTS FOR EYE OR FACE CONTACT DUE TO SPLASHING OR SPRAYING OF MATERIAL, WEAR CHEMICAL SPLASH GOGGLES/FULL LENGTH FACE SHIELD COMBINATION.
FOOTWEAR/TYPE.....	IMPERMEABLE BOOTS.
CLOTHING/TYPE.....	CHEMICAL RESISTANT CLOTHING.
OTHER/TYPE.....	EYE BATH AND SAFETY SHOWER.
ENGINEERING CONTROLS.....	USE SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED EXPOSURE LIMITS.

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Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... LIQUID.
 ODOUR..... ODOURLESS.
 ODOUR THRESHOLD..... N.AV.
 VAPOUR PRESSURE (MMHG)..... N.AV.
 VAPOUR DENSITY (AIR=1)..... N.AV.
 BOILING POINT..... 100 C.
 PH..... 3.3-3.7.
 SPECIFIC GRAVITY (WATER=1)..... 1.05 @15.5C.
 SOLUBILITY IN WATER (% W/W)..... 100% (20 C).
 COEFFICIENT OF WATER/OIL DIST..... N.AV.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:
 YES..... MATERIAL IS STABLE UNDER NORMAL CONDITIONS.
 NO, WHICH CONDITIONS?..... TEMPERATURES ABOVE AMBIENT. HEAT AND CONTAMINATION MAY CAUSE DECOMPOSITION.

COMPATABILITY WITH OTHER SUBSTANCES:
 NO, WHICH ONES?..... INCOMPATIBLE WITH MOST FLAMMABLES/ COMBUSTIBLES AS WELL AS CYANIDES, NITRIC ACID, POTASSIUM PERMANGANATE, AND MANY OTHER OXIDIZING AND REDUCING AGENTS.

CONDITIONS TO AVOID:..... HEAT AND CONTAMINATION MAY CAUSE DECOMPOSITION. ANY CONTAMINATION COULD CAUSE DECOMPOSITION.

REACTIVITY CONDITIONS?..... SEE ABOVE.
 HAZARDOUS PRODUCTS OF DECOMPOSITION..... OXYGEN.
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL..... HYDROGEN PEROXIDE: PEL (OSHA) 1 PPM, 1.4 MG/M3, 8 HR TWA.
 LC 50 OF MATERIAL, SPECIES & ROUTE.. >0.17 MG/L (RAT) (50% HYDROGEN PEROXIDE).
 LD 50 OF MATERIAL, SPECIES & ROUTE.. 1193 MG/KG (RAT), >2000 MG/KG (RABBIT) (35% HYDROGEN PEROXYDE).
 CARCINOGENICITY OF MATERIAL..... HYDROGEN PEROXYDE: ACGIH - A3 (ANIMAL CARCINOGEN); IARC - LISTED, NTP - NOT LISTED, OSHA - NOT LISTED.

REPRODUCTIVE EFFECTS..... FEMALE RATS TREATED WITH 10% HYDROGEN PEROXIDE PRODUCED OFFSPRING OF LOWER BODY WEIGHT AND SOME STRUCTURAL ABNORMALITIES, BUT THESE CHANGES WERE ATTRIBUTED TO MATERNAL TOXICITY.

MUTAGENICITY..... HYDROGEN PEROXIDE PRODUCED GENETIC DAMAGE TO BACTERIAL AND MAMALIAN CELLS IN CULTURE, BUT ONE STUDY IN ANIMALS INDICATED IT DID NOT PRODUCE GENETIC DAMAGE.

SENSITIZING CAPABILITY OF MATERIAL..... NON-SENSITIZER.
 SYNERGISTIC MATERIALS..... N.AV.

Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL TOXICITY INFORMATION N.AV.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, PROVINCIAL, AND LOCAL ENVIRONMENTAL REGULATIONS.

Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION..... 5.1.
 UN NUMBER..... 2984.
 SPECIAL SHIPPING INSTRUCTIONS..... N.AP.

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... C. 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.

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Section 16: OTHER INFORMATION

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