

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

PRODUCT: PARATENE® D-742

CODE: 242514

**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-742  
PRODUCT CODE..... 242514  
MOLECULAR WEIGHT..... N.AV.  
CHEMICAL FAMILY..... SURFACTANT 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
DIPROPYLENE GLYCOL METHYL ETHER	7-15	SEE SECTION 11	34590-94-8	SEE SECTION 11	SEE SECTION 11
ALKYLETHOXYPHENOL MONO AND DIPHOSPHATE ESTERS	3-7	SEE SECTION 11	68130-47-2	SEE SECTION 11	SEE SECTION 11
TRIETHANOLAMINE	1-5	SEE SECTION 11	102-71-6	SEE SECTION 11	SEE SECTION 11
2-PHENOXYPROPANOL	1-5	SEE SECTION 11	4169-04-4	SEE SECTION 11	SEE SECTION 11

**Section 03: HAZARDS IDENTIFICATION**

ROUTE OF ENTRY:  
SKIN CONTACT..... IRRITATION TO SKIN.  
SKIN ABSORPTION..... N.AV.  
EYE CONTACT..... CAUSES IRRITATION, REDNESS AND PAIN.  
INHALATION..... INHALATION MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT.  
INGESTION..... HARMFUL IF SWALLOWED.  
EFFECTS OF ACUTE EXPOSURE..... REFER TO ROUTE OF ENTRY.  
EFFECTS OF CHRONIC EXPOSURE..... MAY CAUSE DERMATITIS BY DEFATTING THE SKIN FROM PROLONGED OR REPEATED CONTACT.  
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE..... DRYNESS OF SKIN.

**Section 04: FIRST AID MEASURES**

INSTRUCTIONS:..... 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. GET IMMEDIATE MEDICAL ATTENTION. IN CASE OF INHALATION, REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION. IN CASE OF INGESTION, GIVE LARGE QUANTITIES OF WATER IF CONSCIOUS. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. DO NOT INDUCE VOMITING. GUARD AGAINST ASPIRATION INTO LUNGS. GET MEDICAL ATTENTION WITHOUT DELAY. IN CASE OF SKIN CONTACT.. REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.  
NOTES TO PHYSICIAN:..... TREAT SYMPTOMATICALLY.

**Section 05: FIRE FIGHTING MEASURES**

FLAMMABILITY..... SEE FLASH POINT.  
IF YES, UNDER WHICH CONDITIONS?..... N.AP.  
EXTINGUISHING MEDIA..... CO2, DRY CHEMICAL, FOAM, WATER FOG. AS REQUIRED FOR SURROUNDING FIRE.  
SPECIAL PROCEDURES..... PREVENT HUMAN EXPOSURE TO FIRE, SMOKE AND FUMES, AND EVACUATE NON-ESSENTIAL PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE

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**Section 05: FIRE FIGHTING MEASURES**

SPECIAL PROCEDURES.....	CLOTHING FIGHT FIRE FROM A SAFE DISTANCE OR PROTECTED LOCATION. ALWAYS STAY AWAY FROM TANKS ENGULFED IN FIRE. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICES OR DISCOLORATION OF TANK. HEAT MAY RUPTURE CLOSED CONTAINERS, SPREADING FIRE AND INCREASING RISK OF BURNS AND INJURIES. USE WATER SPRAY OR FOG FOR COOLING, AVOID FROTHING AS STEAM EXPLOSION MAY OCCUR. NOTIFY PROPER AUTHORITIES IF LIQUID ENTERS SEWERS OR PUBLIC WATERS.
FLASH POINT (C), METHOD.....	>93.3.
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.
UNUSUAL FIRE AND EXPLOSION .....	AS PER SURROUNDING FIRES.
HAZARDS	
HAZARDOUS COMBUSTION PRODUCTS..	CARBON MONOXIDE. OTHER TOXIC VAPOURS.

**Section 06: ACCIDENTAL RELEASE MEASURES**

LEAK/SPILL.....	EVACUATE AND LIMIT ACCESS TO AREA. ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT. STOP RELEASE AND PREVENT FLOW TO SEWERS OR PUBLIC WATERS. CONTAIN AND COLLECT SPILLAGE. ABSORB SPILL WITH INERT MATERIAL (E.G., DRY SAND OR EARTH), THEN PLACE IN A CHEMICAL WASTE CONTAINER.
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**Section 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND EQUIPMENT .....	AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. AVOID BREATHING VAPOURS. AVOID INGESTION. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES. STORE IN A COOL, WELL VENTILATED AREA, AWAY FROM INCOMPATIBLES. MAINTAIN A GOOD PERSONAL HYGIENE. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE WITH ADEQUATE VENTILATION.
STORAGE NEEDS.....	STORE IN COOL DRY, WELL VENTILATED AREA. KEEP CONTAINER CLOSED WHEN NOT IN USE.

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

GLOVES/ TYPE.....	CHEMICAL RESISTANT GLOVES. CONTACT GLOVE MANUFACTURER FOR SPECIFIC INFORMATION.
RESPIRATORY/TYPE.....	USE A NIOSH/MSHA APPROVED RESPIRATOR IF REQUIRED.
EYE/TYPE.....	SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD. DO NOT WEAR CONTACT LENSES.
FOOTWEAR/TYPE.....	CHEMICAL RESISTANT.
CLOTHING/TYPE.....	WEAR IMPERVIOUS PROTECTIVE CLOTHING.
OTHER/TYPE.....	EYE BATH AND SAFETY SHOWER.
ENGINEERING CONTROLS.....	LOCAL EXHAUST AND GENERAL ROOM VENTILATION ARE REQUIRED TO MEET EXPOSURE STANDARDS.

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE.....	LIQUID.
ODOUR.....	CITRUS.
ODOUR THRESHOLD.....	N.AV.
VAPOUR PRESSURE (MMHG).....	N.AV.
VAPOUR DENSITY (AIR=1).....	N.AV.
EVAPORATION RATE.....	N.AV.
BOILING POINT.....	N.AV.
PH.....	7.5.
SPECIFIC GRAVITY (WATER=1).....	~1.04.
SOLUBILITY IN WATER (% W/W).....	SOLUBLE.
COEFFICIENT OF WATER/OIL DIST.....	N.AV.

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**Section 10: STABILITY AND REACTIVITY**

## CHEMICAL STABILITY:

YES..... PRODUCT STABLE UNDER NORMAL CONDITIONS OF TEMPERATURE AND PRESSURE.

NO, WHICH CONDITIONS?  
COMPATABILITY WITH OTHER  
SUBSTANCES:

YES

NO, WHICH ONES?..... STRONG OXIDIZING AGENTS. BASES.

REACTIVITY CONDITIONS?..... AVOID INCOMPATIBLES.

HAZARDOUS PRODUCTS OF ..... SEE HAZARDOUS COMBUSTION PRODUCTS.

DECOMPOSITION

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

**Section 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMIT OF MATERIAL..... DIPROPYLENE GLYCOL METHYL ETHER: 8 HR/TWA, SKIN: 100 PPM, 606 MG/M3; 15 MIN/STEL, SKIN: 150 PPM, 909 MG/M3. TRIETHANOLAMINE: 5 MG/M3 TWA8 ACGIH. ALKYLETHOXYPHENOL MONO AND DIPHOSPHATE ESTERS: N.AV.

2-PHENOXYPROPANOL: N.AV.

LC 50 OF MATERIAL, SPECIES &amp; ROUTE.. DIPROPYLENE GLYCOL METHYL ETHER: N.AV. TRIETHANOLAMINE: INHALATION-STATIC GENERATION: RAT, FEMALE, 6 H, 25 C. MORTALITY: 0/5; RAT, MALE, 6 H, 25 C. MORTALITY: 0/5. ALKYLETHOXYPHENOL MONO AND DIPHOSPHATE ESTERS: N.AV. 2-PHENOXYPROPANOL: N.AV.

LD 50 OF MATERIAL, SPECIES &amp; ROUTE.. DIPROPYLENE GLYCOL METHYL ETHER: 5220 MG/KG BWT (ORAL-RAT), 13,000-14,000 MG/KG BWT (SKIN-RABBIT). TRIETHANOLAMINE: PERORAL: RAT, FEMALE, LD50 = 4.92 (3.58-6.78) ML/KG; PERORAL: RAT, MALE, LD50 = 8.57 (5.80-12.7) ML/KG; PERCUTANEOUS: RABBIT, FEMALE = 16 ML/KG, 24 H, OCCLUDED. MORTALITY: 0/5; PERCUTANEOUS: RABBIT, MALE = 16 ML/KG, 24 H OCCLUDED. MORTALITY: 0/5. ALKYLETHOXYPHENOL MONO AND DIPHOSPHATE ESTERS: N.AV. 2-PHENOXYPROPANOL: N.AV.

CARCINOGENICITY OF MATERIAL..... N.AV.

MUTAGENICITY..... N.AV.

REPRODUCTIVE EFFECTS..... N.AV.

IRRITANCY OF MATERIAL..... SEE SECTION 03.

SENSITIZING CAPABILITY OF MATERIAL..... N.AV.

SYNERGISTIC MATERIALS..... N.AV.

NOTE..... CONTAINS &lt; 1% OF DIETHANOLAMINE: . THERE ARE REPORTS THAT INGESTION OF DIETHANOLAMINE (DEA) PRODUCED NERVOUS SYSTEM INJURY IN DOGS AND RATS. HEART AND SALIVARY GLAND LESIONS HAVE ALSO BEEN OBSERVED IN MICE TREATED WITH DEA CUTANEOUSLY AND IN DRINKING WATER. RATS GIVEN HIGH DOSES OF DEA DEVELOPED ANEMIA AND TESTICULAR LESIONS. AN INCREASED INCIDENCE OF SOME SKELETAL VARIATIONS SUGGESTIVE OF A SLIGHT DEVELOPMENTAL DELAY WAS SEEN ONLY IN THE FETUSES OF RATS GIVEN 1500 MG/KG/DAY CUTANEOUSLY WHICH ALSO CAUSED SIGNIFICANT MATERNAL TOXICITY. HOWEVER, NO FETAL MALFORMATIONS WERE OBSERVED IN EITHER RATS OR RABBITS SIMILARLY TREATED. PRELIMINARY FINDINGS FROM THE NATIONAL TOXICOLOGY PROGRAM SUGGEST AN INCREASED INCIDENCE OF LIVER TUMORS IN BOTH SEXES OF MICE AND AN INCREASED INCIDENCE OF KIDNEY TUMORS IN MALE MICE DERMALLY EXPOSED FOR THEIR LIFETIME TO DEA. THE SIGNIFICANCE OF THESE FINDINGS AND THEIR RELEVANCE TO HUMANS ARE NOT CLEAR AS DEA WAS NOT GENOTOXIC (NEITHER MUTAGENIC NOR CLASTOGENIC), AND DID NOT INDUCE TUMORS IN RATS OR IN TRANSGENIC MICE SIMILARLY TREATED. ADDITIONAL RESEARCH WHICH IS DESIGNED TO PROVIDE A BETTER UNDERSTANDING OF THE SIGNIFICANCE OF THESE OBSERVATIONS TO HUMANS, IF ANY, IS UNDERWAY. RECENT ANALYSES OF DIETHANOLAMINE AND TRIETHANOLAMINE FOR N-NITROSODIETHANOL AMINE HAVE NOT REVEALED ITS PRESENCE AT THE DETECTION LIMIT OF THE TEST (20 PPB). HOWEVER, AMINES MAY REACT WITH NITRITES OR OTHER NITROSATING AGENTS TO FORM NITROSAMINES. SOME NITROSAMINES HAVE BEEN SHOWN TO BE CARCINOGENIC IN LABORATORY ANIMALS.

**Section 12: ECOLOGICAL CONSIDERATIONS**

ENVIRONMENTAL FATE..... MAY BE HARMFUL TO AQUATIC LIFE.

**Section 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

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**Section 14: TRANSPORT INFORMATION**

TDG CLASSIFICATION..... NOT REGULATED.  
SPECIAL SHIPPING INSTRUCTIONS..... N.AP.

**Section 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION..... D2B.  
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