

CLEAN HARBORS ENERGY & INDUSTRIAL SERVICES CORP.
15715 121A AVENUE
EDMONTON
AB CANADA
780-451-6969

PRODUCT: PARATENE® D-740

CODE: 242380

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER..... CLEAN HARBORS ENERGY & INDUSTRIAL SERVICES CORP.
15715 121A AVENUE
EDMONTON
AB
T5V 1B1
780-451-6969
PREPARED BY..... Regulatory Affairs
PREPARATION DATE..... Sep30/11
PRODUCT NAME..... PARATENE® D-740
PRODUCT CODE..... 242380
CHEMICAL FORMULA..... BLEND.
CHEMICAL FAMILY..... BLEND.
MATERIAL USE..... REFER TO TECHNICAL LITERATURE.
EMERGENCY PHONE NO..... 780-451-6969.

Section 02: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
LAURYL DIMETHYL AMINE OXIDE	10-30	SEE SECTION 11	1643-20-5	SEE SECTION 11	SEE SECTION 11
BIS-(2-HYDROXYETHYL)ISODECYL OXYPROPYLAMINE OXIDE	7-13	SEE SECTION 11	68478-65-9	SEE SECTION 11	SEE SECTION 11
ALCOHOL ETHOXYLATE	7-13	SEE SECTION 11	68991-48-0	SEE SECTION 11	SEE SECTION 11

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... MAY CAUSE IRRITATION. FREQUENT OR PROLONGED CONTACT CAN CAUSE SEVERE IRRITATION, DERMATITIS OR BURNS..
SKIN ABSORPTION..... N.AV.
EYE CONTACT..... MAY CAUSE IRRITATION OR BURNS.
INHALATION..... MAY BE IRRITATING TO THE MUCOUS MEMBRANES AND LUNG TISSUE.
INGESTION..... MAY BE HARMFUL IF SWALLOWED. MAY CAUSE NAUSEA, VOMITING, DIARRHEA.
EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE..... REFER TO ROUTE OF ENTRY.

Section 04: FIRST AID MEASURES

INSTRUCTIONS:..... FOR EYE CONTACT, FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN CONTACT, FLUSH WITH WATER IMMEDIATELY FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION DEVELOPS AND PERSISTS. INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION IMMEDIATELY. IN CASE OF INGESTION, DO NOT INDUCE VOMITING. GIVE WATER TO DILUTE. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.
NOTES TO PHYSICIAN:..... THERE IS NO SPECIFIC ANTIDOTE. TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT. ANY MATERIAL ASPIRATED DURING VOMITING MAY CAUSE LUNG INJURY.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... SEE FLASH POINT.
IF YES, UNDER WHICH CONDITIONS?
EXTINGUISHING MEDIA..... CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER SPRAY.
SPECIAL PROCEDURES..... USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND STRUCTURES. WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS.
FLASH POINT (C), METHOD..... >100 C.
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.

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Section 05: FIRE FIGHTING MEASURES

RATE OF BURNING..... N.AV.
 SENSITIVITY TO STATIC DISCHARGE..... N.AV.
 SENSITIVITY TO IMPACT..... N.AV.
 HAZARDOUS COMBUSTION PRODUCTS.. SEE HAZARDOUS DECOMPOSITION PRODUCTS.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... WEAR PROTECTIVE EQUIPMENT. FLOOR MAY BECOME SLIPPERY. ISOLATE AREA. STOP LEAK IF SAFE TO DO SO. CONTAIN AND ABSORB SPILL WITH AN INERT MATERIAL. COLLECT IN SUITABLE AND PROPERLY LABELED CONTAINERS. AVOID DISCHARGE TO NATURAL WATERS AND SEWERS. LARGE SPILLS:. DIKE TO PREVENT ENTERING ANY SEWER OR WATERWAY. TRANSFER MATERIAL TO A HOLDING CONTAINER. ABSORB RESIDUE WITH CHEMICAL ABSORBENT.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. DO NOT SWALLOW. DO NOT EQUIPMENT INHALE VAPOUR OR MIST. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE WITH ADEQUATE VENTILATION. KEEP CONTAINERS CLOSED OR SEALED. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.
 STORAGE NEEDS..... KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE IN A COOL AND WELL-VENTILATED AREA.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE..... CHEMICAL IMPERVIOUS GLOVES. CONTACT GLOVE MANUFACTURER FOR SPECIFIC INFORMATION.
 RESPIRATORY/TYPE..... A NIOSH/MSHA JOINTLY APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.
 EYE/TYPE..... WEAR CHEMICAL SPLASH GOGGLES.
 FOOTWEAR/TYPE..... CHEMICAL RESISTANT.
 CLOTHING/TYPE..... CHEMICAL RESISTANT CLOTHING.
 OTHER/TYPE..... EYE BATH AND SAFETY SHOWER.
 ENGINEERING CONTROLS..... GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY. MAINTAIN EXPOSURES BELOW APPLICABLE EXPOSURE LIMITS.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... LIQUID.
 ODOUR..... MILD ALCOHOL .
 ODOUR THRESHOLD..... N.AV.
 VAPOUR PRESSURE (MMHG)..... N.AV.
 VAPOUR DENSITY (AIR=1)..... N.AV.
 EVAPORATION RATE..... N.AV.
 BOILING POINT..... 100 C.
 MELTING OR FREEZING POINT..... -5 C.
 PH..... 8-8.5 (2% CONCENTRATION).
 SPECIFIC GRAVITY (WATER=1)..... 1.01.
 SOLUBILITY IN WATER (% W/W)..... SOLUBLE.
 COEFFICIENT OF WATER/OIL DIST..... N.AV.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:
 YES..... STABLE.
 NO, WHICH CONDITIONS?..... HIGH TEMPERATURES.
 COMPATABILITY WITH OTHER SUBSTANCES:
 YES
 NO, WHICH ONES?..... STRONG ACIDS. STRONG OXIDIZING AGENTS.
 REACTIVITY CONDITIONS?..... EXCESSIVE HEAT. SEE ABOVE.
 HAZARDOUS PRODUCTS OF CO, CO2 AND OTHER TOXIC VAPOURS.
 DECOMPOSITION
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

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Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL..... N.A.V. .
 LC 50 OF MATERIAL, SPECIES & ROUTE.. LAURYL DIMETHYL AMINE OXIDE: INHALATION/4 H-RAT, >5.3 MG/L.
 DIHYDROXYETHYL COCAMINE OXIDE: N.A.V. ALCOHOL ETHOXYLATE: N.A.V.
 LD 50 OF MATERIAL, SPECIES & ROUTE.. LAURYL DIMETHYL AMINE OXIDE: ORAL-RAT, >10 G/KG; DERMAL, NO DATA.
 DIHYDROXYETHYL COCAMINE OXIDE: ORAL-RAT, >5000 MG/KG; DERMAL, NO
 DATA. ALCOHOL ETHOXYLATE: ORAL-RAT, >2,000 MG/KG.
 CARCINOGENICITY OF MATERIAL..... NONE KNOWN.
 REPRODUCTIVE EFFECTS..... N.A.V.
 IRRITANCY OF MATERIAL..... SEE SECTION 03.
 SENSITIZING CAPABILITY OF MATERIAL. SEE SECTION 03.
 SYNERGISTIC MATERIALS..... N.A.V.

Section 12: ECOLOGICAL CONSIDERATIONS

NO DATA AVAILABLE.

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION..... NOT REGULATED.
 SPECIAL SHIPPING INSTRUCTIONS..... N.A.P.

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.A.V.=NOT AVAILABLE
 N.A.P.=NOT APPLICABLE