

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

PRODUCT: PARATENE® M-390

CODE: 241068

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..... Oct05/11
PRODUCT NAME..... PARATENE® M-390
PRODUCT CODE..... 241068
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
METHANESULPHONIC ACID	30-60	SEE SECTION 11 11	75-75-2	SEE SECTION 11	SEE SECTION 11

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... SKIN CONTACT WILL CAUSE CORROSIVE BURNS OF TISSUE.
SKIN ABSORPTION..... N.AV.
EYE CONTACT..... RISK OF SERIOUS EYE DAMAGE. EYE CONTACT WILL CAUSE CORROSIVE BURNS
OF TISSUE.
INHALATION..... INHALATION OF VAPOURS OR MIST WILL CAUSE BURNS TO THE RESPIRATORY
TRACT.
INGESTION..... INGESTION WILL CAUSE ADVERSE HEALTH EFFECTS.
EFFECTS OF ACUTE EXPOSURE..... REFER TO ROUTE OF ENTRY.
EFFECTS OF CHRONIC EXPOSURE..... THERE ARE NO KNOWN CHRONIC EFFECTS ASSOCIATED WITH THIS MATERIAL.

Section 04: FIRST AID MEASURES

INSTRUCTIONS:..... EYES: FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONSULT A
PHYSICIAN IMMEDIATELY. SKIN CONTACT.. FLUSH IMMEDIATELY WITH WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND LAUNDRER
BEFORE REUSE. GET MEDICAL ATTENTION AT ONCE. INGESTION: DO NOT
INDUCE VOMITING. DRINK PLENTY OF WATER. NEVER GIVE ANYTHING BY MOUTH
TO AN UNCONSCIOUS PERSON. IF VOMITING OCCURS NATURALLY, HAVE VICTIM
LEAN FORWARD TO REDUCE RISK OF ASPIRATION. CONSULT A PHYSICIAN
IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR. ASSIST BREATHING IF
NECESSARY. CONSULT A PHYSICIAN.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... SEE FLASH POINT.
IF YES, UNDER WHICH CONDITIONS?..... AVOID EXCESSIVE HEAT, OPEN FLAMES AND ALL IGNITION SOURCES.
EXTINGUISHING MEDIA..... WATER FOG. CO2. FOAM. DRY CHEMICAL.
SPECIAL PROCEDURES..... WEAR SELF-CONTAINED BREATHING APPARATUS AND CHEMICAL-PROTECTIVE
CLOTHING. COLLECT CONTAMINATED EXTINGUISHING WATER SEPARATELY. DO
NOT ALLOW TO REACH SEWER OR EFFLUENT SYSTEM. COOL CONTAINERS
EXPOSED TO FLAME WITH WATER SPRAY.
FLASH POINT (C), METHOD..... >93.3 (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.
RATE OF BURNING..... N.AV.
SENSITIVITY TO STATIC DISCHARGE..... N.AV.
SENSITIVITY TO IMPACT..... N.AV.
HAZARDOUS COMBUSTION PRODUCTS.. OXIDES OF NITROGEN AND CARBON DIOXIDE, CARBON MONOXIDE.

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Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... WEAR PROTECTIVE CLOTHING AND EQUIPMENT. CORROSIVE MATERIAL. STOP LEAK IF SAFE TO DO SO. ISOLATE AREA. CONTAIN LARGE SPILLS AND PUMP AWAY. SMALL SPILLS CAN BE COVERED WITH ABSORBENT MATERIAL. (SAND OR CLAY). COLLECT INTO A SUITABLE CONTAINER FOR DISPOSAL. DO NOT DISCHARGE INTO SEWERS OR NATURAL WATERS.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY EQUIPMENT PRACTICES. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AVOID BREATHING MIST OR VAPOUR. DO NOT INGEST. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE WITH ADEQUATE VENTILATION. DO NOT CUT, DRILL, GRIND, WELD, OR PERFORM SIMILAR OPERATIONS ON OR NEAR EMPTY CONTAINERS. KEEP CONTAINER CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

STORAGE NEEDS..... STORE IN A COOL, DRY AND WELL VENTILATED LOCATION. KEEP CONTAINERS TIGHTLY CLOSED.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE..... CHEMICAL RESISTANT GLOVES. CONSULT GLOVE MANUFACTURER TO DETERMINE APPROPRIATE TYPE OF GLOVE FOR GIVEN APPLICATION.

RESPIRATORY/TYPE..... APPROVED RESPIRATOR IF EXPOSED TO VAPOURS OR MIST.

EYE/TYPE..... CHEMICAL GOGGLES OR FULL FACE SHIELD.

FOOTWEAR/TYPE..... CHEMICAL RESISTANT.

CLOTHING/TYPE..... IMPERVIOUS CLOTHING.

OTHER/TYPE..... EYEWASH AND SAFETY SHOWER SHOULD BE AVAILABLE.

ENGINEERING CONTROLS..... GOOD VENTILATION SHOULD BE PROVIDED TO KEEP VAPOUR AND MIST CONCENTRATIONS BELOW THE EXPOSURE LIMITS. EQUIPMENT SHOULD BE EXPLOSION PROOF.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... LIQUID.

ODOUR..... CHARACTERISTIC.

ODOUR THRESHOLD..... N.AV.

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

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

EVAPORATION RATE..... N.AV.

BOILING POINT..... 100-135 C.

PH..... <1.

SPECIFIC GRAVITY (WATER=1)..... 1.25.

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?..... ALKALIES.

COMPATABILITY WITH OTHER SUBSTANCES:

YES

NO, WHICH ONES?..... ALKALIES.

REACTIVITY CONDITIONS?..... SEE ABOVE.

HAZARDOUS PRODUCTS OF HYDROGEN CAN FORM ON CONTACT WITH WATER AND METALS.

DECOMPOSITION

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL..... NOT ESTABLISHED.

LC 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.

LD 50 OF MATERIAL, SPECIES & ROUTE.. ACUTE ORAL-RAT (LITERATURE DATA) LD50: CERCA 1000 MG/KG.

CARCINOGENICITY OF MATERIAL..... NONE KNOWN.

REPRODUCTIVE EFFECTS..... NONE KNOWN.

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

SENSITIZING CAPABILITY OF MATERIAL. N.AV.

SYNERGISTIC MATERIALS..... N.AV.

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Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL STATEMENT..... AVOID RELEASING INTO THE ENVIRONMENT. TOXIC TO AQUATIC LIFE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DISPOSE OF IN ACCORDANCE TO ALL LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

Section 14: TRANSPORT INFORMATIONUN NUMBER..... 3265.
TDG CLASSIFICATION..... 8.
PACKING GROUP..... II.
SPECIAL SHIPPING INSTRUCTIONS..... N.AV.**Section 15: REGULATORY INFORMATION**WHMIS CLASSIFICATION..... 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.AP.=NOT APPLICABLE
N.AV.=NOT AVAILABLE