

COASTAL CORP -- UNLEADED GASOLINE -- 9130-01-282-2844

===== Product Identification =====

Product ID:UNLEADED GASOLINE

MSDS Date:06/22/2000

FSC:9130

NIIN:01-282-2844

MSDS Number: BRGNT

=== Responsible Party ===

Company Name:COASTAL CORP

Address:9 GREENWAY PLAZA

City:HOUSTON

State:TX

ZIP:77046

Country:US

Info Phone Num:713-877-1400

Emergency Phone Num:713-877-1400

Resp. Party Other MSDS Num.:MSDS N

O: A0001.MSD

Chemtrec Ind/Phone:(800)424-9300

CAGE:46684

=== Contractor Identification ===

Company Name:COASTAL CORP

Address:9 GREENWAY PLAZA

Box:City:HOUSTON

State:TX

ZIP:77046

Country:US

Phone:713-877-6732

CAGE:46684

===== Composition/Information on Ingredients =====

Ingred Name:BENZENE (SARA III)

CAS:71-43-2

RTECS #:CY1400000

Minumum % Wt:0.

Maxumum % Wt:5.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1PPM/5STEL;1910.1028

ACGIH TLV:10 PPM; A2; 9293

EPA Rpt Qty:10 LBS

DOT Rp

t Qty:10 LBS

Ingred Name:TOLUENE (SARA III)

CAS:108-88-3

RTECS #:XS5250000

Minumum % Wt:0.

Maxumum % Wt:25.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:200 PPM/150 STEL

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)

CAS:1330-20-7

RTECS #:ZE2100000

Minumum % Wt:0.

Maxumum % Wt:25.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM/150 STEL

ACGIH TLV:100 PPM/150STEL;9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:ETH

YL BENZENE (SARA III)

CAS:100-41-4

RTECS #:DA0700000

Minumum % Wt:0.

Maxumum % Wt:5.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM/125 STEL

ACGIH TLV:100 PPM/125STEL 9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:HEXANE (N-HEXANE)

CAS:110-54-3

RTECS #:MN9275000

< Wt:3.5

Other REC Limits:NONE RECOMMENDED

OSHA PEL:500 PPM

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:HEXANE ISOMERS (OTHER THAN N-HEXANE)

< Wt:9.

Other REC Limits:NONE RECOMMENDED

OSHA

PEL:500 PPM/1000 STEL.
ACGIH TLV:500 PPM/1000 STEL.

Ingred Name:1,2,4-TRIMETHYLBENZENE (SARA III)
CAS:95-63-6
RTECS #:DC3325000
Minumum % Wt:0.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:25 PPM
ACGIH TLV:25 PPM; 9293

Ingred Name:CUMENE (SARA III)
CAS:98-82-8
RTECS #:GR8575000
Minumum % Wt:0.
Maxumum % Wt:2.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 50 PPM
ACGIH TLV:S, 50 PPM; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:BUTANE
CAS:106-97-8
RTECS #:EJ420000
0
< Wt:9.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:800 PPM
ACGIH TLV:800 PPM; 9293

Ingred Name:PENTANE
CAS:109-66-0
RTECS #:RZ9450000
< Wt:6.5
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM/750 STEL
ACGIH TLV:600 PPM/750STEL;9293

Ingred Name:TERT-BUTYL ALCOHOL (SARA III)
CAS:75-65-0
RTECS #:EO1925000
Minumum % Wt:0.
Maxumum % Wt:10.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM
ACGIH TLV:100PPM 9394

Ingred Name:METHYL TERT-BUTYL ETHER (SARA III)
CAS:1634-04-4
RTECS #:KN525

0000

Minumum % Wt:0.

Maxumum % Wt:15.

Other REC Limits:NONE RECOMMENDED

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

===== Hazards Identification =====

LD50 LC50 Mixture:NONE PROVIDED BY MFR

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE: EYES: SLIGHT TO MODERATE EYE IRRITATION. SKIN: MODERATELY IRRITATING. INHALATION: IRRITATING TO MUCOUS MEMBRANE AND RESPIRATORY TRACT. CAN ACT AS A SIMPLE ASPHYXIANT. INGESTI

ON: MAY CAUSE STOMA CH IRRITATION. CHRONIC: SKIN AND EYE IRRITATION. MAY AFFECT THE RESPIRATORY AND CENTRAL NERVOUS SYTEM. RECENT STUDIES INDICATE KIDNEY DAMAGE AND KIDNEY CANCER IN RATS, AND LIVER CANCER IN MICE.

Explanation of Carcinogenicity:CARCINOGENICITY: UNLEADED GASOLINE- NTP, NO; IARC MONOGRAPHS, POSSIBLE CARCINOGENIC TO HUMANS; OSHA REGULATED, NO. BENZENE- NTP, YES; IARC MONOGRAPHS, YES; OSHA REGULATED, YES.

Effects of Overexposure:SKIN: REDNESS, DRYING OF THE SKIN. INHALATION:

GASTRITIS, HEADACHE, NAUSEA, DROWSINESS, LOSS OF CONCIOUSNESS, CONVULSIONS, CYANOSIS, PNEUMONITIS, PULMONARY EDEME, CENTRAL NERVOUS SYSTEM DEPRESSION AND CAPILLARY HEMORRHAGING OF THE LUNG AND INTERNAL ORGANS. ASPIRATION HAZARD IF VOMITING OCCURS.

Medical Cond Aggravated by Exposure:EITHER CONCENTRATED OR DILUTE FORMS OF THIS PRODUCT AT TLV(OR EVEN BELOW) MAY AGGRAVATE EXISTING DERMATITIS OR RESPIRATORY DISORDERS. BENZENE DEGENERATES BLOOD PRODUCING

ORGANS LEADING TO LEUKEMIA.

===== First Aid Measures =====

First Aid:EYES:FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES INCLUDING UNDER EYELIDS. CONTACT A PHYSICIAN IMMEDIATELY, PERFERABLY AN OPHTHALMOLOGIST, SPEED & THOROUGHNESS IN RINSING EYES ARE IMPORTANT TO AVOID PERMANENT INJURY. SKIN:REMOVE CONTAMINATED CLOTHING & SHOES. WASH AFFECTED AREAS WITH SOAP & FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 TO 20 MINUTES. GET IMMEDIATE

MEDICAL

ATTENTION. INHALATION :REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED APPLY ARTIFICIAL RESPIRATION. SEEK IMMEDIATE MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IF SPONTANEOUS VOMITING OCCURS HOLD THE VICTIMS HEAD LOWER THAN HIPS TO PREVENT ASPIRATION.

===== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:=-42.6C, -45.F

Autoignition Temp:Autoignition Temp Text:>495F

Lower Limits:1.4

Upper Limits:7.6

Extingui

shing Media:DRY CHEMICAL, FORM, OR CARBON DIOXIDE

Fire Fighting Procedures:USE A SMOTHERING TECHNIQUE FOR EXTINGUISHING FIRE. DO NOT USE A FORCED WATER STREAM DIRECTLY ON GASOLINE FIRES AS THIS WILL TEND TO SCATTER THE FIRE. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:FLOWING GASOLINE CAN BE IGNITED BY SELF-GENERATED STATIC ELECTRICITY: CONTAINERS SHOU

LD BE GOUNDED AND

BONDED. RUNOFF TO SEWER MAY CREATE A FIRE OR EXPLOSION HAZARD WELL DOWNSTREAM FROM THE SOURCE

===== Accidental Release Measures =====

Spill Release Procedures:REMOVE SOURCES OF HEAT OR IGNITION INCLUDING INTERNAL COMBUSTION ENGINES AND POWER TOOLS. CLEAN UP SPILL, BUT DO NOT FLUSH TO SEWER OR SURFACT WATER. VENTILATE AREA AND AVOID INHALATION OF VAPORS OR M ISTS.

===== Handling and Storage =====

==

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED CONTAINERS IN A COOL PLACE, AWAY FROM INCOMPTABILE MATERIALS OR SOURCES OF HEAT AND IGNITION. GROUND & BOND ALL TRANSFER & STORAGE EQUIPMENT TO PREVENT STATIC SPARKS & EQUIP WI TH SELF-CLOSING VALVES, PRESSURE VACUUM BUNGS & FLAME ARRESTORS.

Other Precautions:GASOLINE IS TO BE USED AS MOTOR FUEL ONLY. NEVER USE AS A CLEANING SOLVENT OR DEGREASER. USE EXPLOSION PROOF ELECTRICAL EQUIPMENT. NO SMOKING SHOULD BE ALL

OWED IN AREA OF USE.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE APPROVED RESPIRATORY PROTECTIVE EQUIPMENT FOR CLEANING LARGE SPILLS OR ENTRY INTO TANKS, VESSELS OR OTHER CONFINED SPACES.

Ventilation:PROVIDE ADEQUATE GENERAL AND LOCAL VENTILATION TO MAINTAIN AIRBORNE CHEMICAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE LIMITS.

Protective Gloves:WEAR IMPERVIOUS GLOVES

Eye Protection:REMOVE CONTACT LENSES & WEAR CHEMICAL SAFETY GLASSES OR GOGGLES

Other Protective Equipment:OIL IMPERVIOUS INDUSTRIAL WORK CLOTHING TO MINIMIZE SKIN CONTACT. EYE BATH AND SAFETY SHOWER RECOMMENDED.

Work Hygienic Practices:LAUNDRY CONTAMINATED CLOTHING PRIOR TO REUSE. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

THE VARIABLE COMPOSITION MAKES IT IMPOSSIBLE TO SET SPECIFIC EXPOSURE LIMIT FOR ALL COMPOSITIONS OF THIS MATERIAL. SPECIFIC EXPOSURE LIMITS FOR POTENTIAL COMPONENTS SUCH

AS BENZENE SHOULD BE APPLIED

BASED ON AIR MONITORING TO ASSURE EMPLOYEES ARE NOT EXPOSED TO EXCESSIVE VAPOR LEVELS OF COMPONENTS.

===== Physical/Chemical Properties =====

HCC:F1

Boiling Pt:B.P. Text:80 - 430 F

Melt/Freeze Pt:M.P/F.P Text:VARIABLE

Decomp Temp:Decomp Text:NONE PROVIDED BY MFR

Vapor Pres:325-525 MMHG @ 100F

Vapor Density:3-4(AIR=1)

Spec Gravity:0.7 - 0.77 @ 60/60F

Viscosity:1.4 CST @ 40 C

Solubility in Water:NEGLIGIBLE

Appearance and Odor:B

RONZE FLUID - AROMATIC ODOR

Percent Volatiles by Volume:100 %

Corrosion Rate:NONE PROVIDED BY MFR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG ACIDS AND ALKALIES, HALOGENS.

Stability Condition to Avoid:HEAT, SPARKS, FLAME, BUILD-UP OF STATIC ELECTRICITY.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE AND HYDROCARBONS.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===

=====
Toxicological Information
=====

Toxicological Information: CONTACT WITH FULL STRENGTH OR EVEN DILUTE FORMULATIONS OF THIS PRODUCT OR EXPOSURE ABOVE AND/OR BELOW THE PEL OR TLV MAY AGGRAVATE PRE-EXISTING DERMATITIS OR RESPIRATORY DISORDERS IN CERTAIN INDIVIDUALS. THERE IS SUFFICIENT EVIDENCE FOR THE CARCINOGENICITY OF BENZENE IN HUMANS. BENZENE MAY CAUSE DEGENERATION IN BLOOD FORMING ORGANS LEADING TO ANEMIA WHICH MAY FURTHER DEGRADE TO LEUKEMIA. BUTANE AND ISOBUTANE HAVE BEEN SHOWN TO BE CARDIAC SENSITIZERS IN LABORATORY ANIMAL TESTING. N-HEXANE HAS BEEN SHOWN TO CAUSE POLYNEUROPATHY IN ANIMAL TOXICOLOGICAL TESTS.

=====
Ecological Information
=====

Ecological: NO DATA AVAILABLE

=====
Disposal Considerations
=====

Waste Disposal Methods: DISPOSE THROUGH A LICENSED WASTE DISPOSAL COMPANY. FOLLOW APPLICABLE FEDERAL, STATE, AND LOCAL WASTE DISPOSAL REGULATIONS.

=====
MSDS Transport Information
=====

Transport Information: GASOLINE, 3, UN1203, PACKING GROUP II

=====
Regulatory Information
=====

SARA Title III Information: SECTION 302 EPCRA EXTREMELY HAZARDOUS SUBSTANCES (EHS): NONE. SECTION 304 CERCLA HAZARDOUS SUBSTANCES: BENZENE, CAS# 71-43-2, 0-5.0%, RQ 10 LB; TOLUENE CAS# 108-88-3, 0-25.0%, RQ 1000 LB; XYLENE, CAS# 1330-20-7, 0-25.0%, RQ 100 LB; ETHYL BENZENE, 100-41-4, 0-5.0%, RQ 1000 LB; N-HEXANE, 110-54-3,