

MATERIAL SAFETY DATA SHEET: FUEL OIL ADDITIVE

Section I - General Information

(000000-000000- - 0024)

Date of Issue:
1/17/2001 12:00:00 AM

Chemical Name & Synonyms:
N/A

Chemical Family:
AROMATIC PETROLEUM DISTILLATES

Manufacturer Name:
CHEM-AQUA, INC

Manufacturer Address:
BOX 152170
IRVING, TEXAS 75015

Prepared By:
L Boynton/Chemist

Supercedes:
6/8/1995 12:00:00 AM

Trade Name & Synonyms:
FUEL OIL ADDITIVE

Formula is a mixture: [v]

Product Code Number:
0024

Emergency Phone Number:
800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
OIL SOLUBLE SODIUM SULFONATE	IRRITANT	5 MG/M3\$ 1	5 MG/M3\$ 2	NOT EST.	68608-26-4
NAPHTHALENE	IRR/COMB	10 PPM 1	10 PPM 2	NOT EST.	91-20-3
HEAVY AROMATIC NAPHTHA	IRRITANT	5 MG/M3\$ 1	5 MG/M3\$ 2	NOT EST.	64742-94-5
HEXYLENE GLYCOL	IRRITANT	NOT EST. 1	25PPM(C) 2	NOT EST.	107-41-5
ORTHODICHLOROBENZENE	IRRITANT	25 PPM 1	50PPM(C) 2	NOT EST.	95-50-1
1,2,4-TRIMETHYLBENZENE	IRR/COMB	NOT EST. 1	NOT EST. 2	NOT EST.	95-63-6

\$ = OIL MIST; C = CEILING LIMIT

Section III - Physical Data

Boiling Point (?F):320
Vapor Pressure (mm Hg):< 1
Vapor Density (Air=1):5
pH @ 100% :N/A
% Volatile by Volume:78

H₂O Solubility:APPRECIABLE

Specific Gravity (H₂O=1):0.94

Color:AMBER

Odor:PETROLEUM

Clarity:TRANSPARENT

Evaporation Rate (BuAc=1):<.01

Viscosity:NON-VISCOUS

Section IV - Fire and Explosion Hazard

Flash Point:145°F

Flammable Limits:NAPHTHALENE

LEL:0.9

Method Used:T.C.C.

UEL:5.9

Aerosol Level (NFPA 30B):N/A

Extinguishing Media:

[v] Foam [v] Alcohol Foam [v] CO2
[v] Dry Chemical [v] Water Spray [] Other

NFPA 704 Hazard Rating:

4-Extreme Health:2
3-High Flammability:2
2-Moderate Instability:0
1-Slight Special:
0-Insignificant

Special Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE.

Unusual Fire and Explosion Hazards:

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING.

Section V - Health and Hazard Data

Threshold Limit Value:

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

Acute: (Short Term Exposure)

SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING, REDNESS AND SWELLING. MAY CAUSE AN ALLERGIC SKIN REACTION. REPEATED OR PROLONGED CONTACT CAUSES DEFATTING OF THE SKIN. EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS TEARING, REDNESS, AND A BURNING SENSATION. CAUSES CORNEAL INJURY. INHALATION: CAUSES RESPIRATORY IRRITATION SEEN AS COUGHING, SNEEZING, CHOKING AND SHORTNESS OF BREATH. MAY CAUSE HEADACHE, DIZZINESS AND NAUSEA. HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS, UNCONSCIOUSNESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. INGESTION: CAUSES IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA. MAY CAUSE IRRITATION OF THE MOUTH, THROAT AND ESOPHAGUS WITH A LOSS OF CONSCIOUSNESS. ASPIRATION MAY CAUSE MILD TO SEVERE PULMONARY INJURY.

Chronic: (Long Term Exposure)

TARGET ORGANS: BLOOD-FORMING ORGANS, CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS; BLOOD DISORDERS AND CONDITIONS OF THE LIVER AND KIDNEYS. MAY CAUSE SKIN SENSITIZATION IN SOME INDIVIDUALS.

Primary Routes of Entry

[] Inhalation [] Ingestion [v] Absorption

Emergency First Aid Procedures:

Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

Eye Contact:

IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

Skin Contact:

WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

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Notes to Physician:

INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC NTP OSHA ACGIH Other

OIL SOLUBLE SODIUM SULFONATE
NO TOXICITY DATA AVAILABLE

NAPHTHALENE
ORL-HMN(CHILD) LDLo: 100 MG/KG 3.
ORL-RAT LD50: 490 MG/KG 3.
IHL-RAT LC50: >340 MG/M3/1H 3.
SKN-RAT LD50: >2500 MG/KG 3.
SKN-RBT 495 MG MILD 3.
EYE-RBT 100 MG MILD 3.

HEAVY AROMATIC NAPHTHA
ORL-RAT LDLo: 5 ML/KG 3.
IHL-RAT LC50: >590 MG/M3/4H 3.
SKN-RBT LD50: >2 ML/KG 3.

HEXYLENE GLYCOL
ORL-RAT LD50: 3700 MG/KG 3.
IHL-HMN TCLo: 50 PPM/15M 3.
SKN-RBT LD50: 8560 UL/KG 3.
SKN-RBT-SDT: 500 MG/24H MODERATE 3.
EYE-RBT-SDT: 93 MG SEVERE 3.

ORTHODICHLOROBENZENE
ORL-RAT LD50: 500 MG/KG 3.
IHL-RAT LCLo: 821 PPM/7H 3.
SKN-RBT LD50: >10 GM/KG 3.
EYE-RBT 100 MG/30S MILD 3.

NO TERATOGENIC, EMBRYOTOXIC, OR FETOTOXIC EFFECTS WERE OBSERVED IN THE OFFSPRING OF RATS AND RABBITS EXPOSED BY INHALATION TO ODCB AT ATMOSPHERIC CONCENTRATIONS UP TO 400PPM FOR 6 HOURS/DAY DURING THE MAJOR PERIOD OF ORGANOGENESIS. 4.

NO ADVERSE TREATMENT-RELATED EFFECTS ON REPRODUCTION WERE OBSERVED FOLLOWING INHALATION OF ODCB BY MALE AND FEMALE RATS AT ATMOSPHERIC CONCENTRATIONS OF UP TO 400PPM THROUGH PREMATING, MATING, PREGNANCY, AND NURSING PERIODS FOR TWO SUCCESSIVE GENERATIONS. 4.
ODCB POSSESSED WEAK CELL TRANSFORMATION ACTIVITY IN ADULT RAT LIVER EPITHELIAL (ARL 15 CL) CELLS AND WAS WEAKLY MUTAGENIC IN ASPERGILLUS NIDULANS. 4.

THESE LISTINGS ARE BASED EXCLUSIVELY ON STUDIES WHICH FOUND KIDNEY TUMORS IN MALE RATS AND LIVER TUMORS IN MALE AND FEMALE MICE. THERE IS A LARGE BODY OF SCIENTIFIC EVIDENCE BEYOND THESE STUDIES WHICH CONCLUSIVELY DEMONSTRATES THE TUMOR FINDINGS HAVE ONLY MINIMAL RELEVANCE TO HUMANS. 4.

1,2,4-TRIMETHYLBENZENE
ORL-RAT LD50: 5 GM/KG 3.
IHL-RAT LC50: 18 GM/M3/4H 3.

Section VII - Reactivity Data

Stability

Stable Unstable

Conditions to Avoid:

AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

Hazardous Polymerization

Will not occur May occur

Conditions to Avoid:

N/A

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; CHROMIC ACID, NITRIC ACID, SULFURIC ACID, HOT ALUMINUM AND ALUMINUM ALLOYS.

Hazardous Decomposition Products:

OXIDES OF CARBON AND SULPHUR, HYDROGEN, SODIUM, SMOKE, SOOT, CHLORIDES AND CHLORINE.

Section VIII - Spill Or Leak Procedures

Steps to be Taken if Material is Released or Spilled:

ELIMINATE ALL SOURCES OF IGNITION. DIKE AND CONTAIN SPILL IF SAFE TO DO SO. USE ONLY NON-SPARKING EQUIPMENT. ABSORB WITH AN INERT MATERIAL AND TRANSFER INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE CLOTHING. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Neutralizing Agent:

N/A

Section IX - Special Protection Information

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE MISTS OR VAPORS.

Respiratory Protection:

A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

Eye Protection:

CHEMICAL GOGGLES SHOULD BE WORN.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING.

Section X - Storage and Handling Information

Storage Temperature

Max: 120°F Min: 35°F

Storage Conditions

Indoors Outdoors Heated Refrigerated

Precautions to be Taken in Handling and Storing:

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME. DO NOT PRESSURIZE, CUT, WELD, SOLDER, DRILL, GRIND OR EXPOSE EMPTY CONTAINERS TO HEAT, HOT SURFACES, SPARKS OR OPEN FLAMES. GROUND AND BOND CONTAINER WHEN HANDLING NEAR FLAMMABLE VAPORS AND ALL SOURCES OF IGNITION.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS. IF STORED OUTSIDE, STORE CONTAINERS ON THEIR SIDES TO PREVENT WATER ACCUMULATION ON AN END AND CONSEQUENT WATER CONTAMINATION.

Section XI - Regulatory Information

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Upper % Limit</u>
ORTHODICHLOROBENZENE	95-50-1	10
NAPHTHALENE	91-20-3	10
1,2,4-TRIMETHYLBENZENE	95-63-6	5

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in the state of California.

Section XII - References

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2000.
 2. OSHA PEL.
 3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2000.
 4. VENDOR'S MSDS.
- ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE, CORR: CORROSIVE CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, PMCC: PENSKEY-MARTIN CLOSED CUP, TCC: TAGLIABUO CLOSED CUP, LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT, NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP: NATIONAL TOXICOLOGY PROGRAM, OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD, MOD: MODERATE, SEV: SEVERE, MUT: MUTAGENIC, ASPHYX: ASPHYXIAN, PNO: PARTICULATES NOT OTHERWISE CLASSIFIED, SDT: STANDARD DRAIZE TEST, ORL: ORAL, HMN: HUMAN, IHL: INHALATION

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