

MATERIAL SAFETY DATA SHEET: FIRE-UP!

Section I - General Information

(000000-000000- - 1079)

Date of Issue: 12/8/2006 12:00:00 AM
Chemical Name & Synonyms: N/A
Chemical Family: ALKYL ESTER COPOLYMER
Manufacturer Name: CERTIFIED LABS, DIV. OF NCH CORP.
Manufacturer Address: BOX 152170 IRVING, TEXAS 75015
Prepared By: E Levi/Chemist

Supercedes: 10/11/2006 12:00:00 AM
Trade Name & Synonyms: FIRE-UP!
Formula is a mixture: [V]

Product Code Number: 1079
Emergency Phone Number: 800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Table with 6 columns: Chemical Name (Ingredients), Hazard, TLV, PEL, STEL, CAS #. Lists components like CUMENE, XYLENE, and ISOPROPANOL with their respective hazard levels and exposure limits.

Section III - Physical Data

Boiling Point (°F):180°
Vapor Pressure (mm Hg):26.16
Vapor Density (Air=1):2.5
pH @ 100% :N/A
% Volatile by Volume:100
H2O Solubility:NEGLIGIBLE
Specific Gravity (H2O=1):0.816
Color:WHITE/YELLOW
Odor:ALCOHOL
Clarity:HAZY
Evaporation Rate (BuAc=1):0.81
Viscosity:SLIGHT VISCOUS

Section IV - Fire and Explosion Hazard

Flash Point: 55°F
Flammable Limits: PRODUCT MIXTURE
LEL: 0.7%
Method Used: SETAFLASH
UEL: 12.7%
Aerosol Level (NFPA 30B): N/A

Extinguishing Media:
[] Foam [] Alcohol Foam [X] CO2
[X] Dry Chemical [X] Water Spray [] Other

NFPA 704 Hazard Rating:
4-Extreme Health: 2
3-High Flammability: 3
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. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.
Unusual Fire and Explosion Hazards:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT AND/OR LOW-LYING SOURCES OF IGNITION AND FLASHBACK. PRODUCT MAY PRODUCE A FLOATING FIRE HAZARD AS LIQUID FLOATS ON WATER. USE CARE AS SPILLS MAY BE SLIPPERY. THE USE OF WATER SPRAY (FOG) WHILE EFFECTIVE, MAY CAUSE FROTHING AND FOAMING. NEVER USE A WATER JET AS THIS WILL JUST SPREAD THE FIRE.

Section V - Health and Hazard Data

Threshold Limit Value:
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

Acute: (Short Term Exposure)

EYE CONTACT: CAUSES IRRITATION SEEN AS STINGING, TEARING, AND REDNESS. PROLONGED AND REPEATED EXPOSURE MAY CAUSE BLURRED VISION, BURNING SENSATION, AND CORNEAL DAMAGE. SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING AND REDNESS. PROLONGED OR REPEATED CONTACT AS FROM CLOTHING WET WITH MATERIAL MAY CAUSE DRYING, DEFATTING, AND CRACKING OF THE SKIN. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. INHALATION: CAUSES RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. AT LOW VAPOR CONCENTRATIONS, NO HARMFUL EFFECTS ARE EXPECTED. AT HIGH VAPOR CONCENTRATIONS, INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONCIOUSNESS, POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION, AND MAY BE FATAL. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING, AND DIARRHEA. 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.

Chronic: (Long Term Exposure)

LONG TERM INHALATION OF TRIMETHYLBENZENES MAY CAUSE BLOOD SYSTEM EFFECTS. CHRONIC INHALATION OF SOLVENTS LIKE XYLENE HAVE CAUSED HEARTBEAT IRREGULARITY, HEARTBEAT INCREASE, KIDNEY AND LIVER EFFECTS, AND PERMANENT CENTRAL AND PERIPHERAL NERVOUS SYSTEM DAMAGE, RESULTING IN DECREASED LEARNING ABILITY, LOSS OF MEMORY, PERSONALITY CHANGES, AND DISTURBANCES IN GAIT. A CONDITION KNOWN AS "PAINTER'S SYNDROME" CAN OCCUR CAUSING A LOSS OF SENSATION IN THE ARMS AND HANDS (PERIPHERAL NEUROPATHY). CHRONIC SKIN CONTACT MAY PROMOTE DERMATITIS AND OIL ACNE. IN RARER CASES, AN INCREASED SENSITIVITY TO SUNLIGHT (PHOTOSENSITIVITY) MAY OCCUR. ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO HYDROCARBON MIST POSES A RISK OF CHRONIC LUNG INFLAMMATION. THIS CONDITION IS USUALLY ASYMPTOMATIC AS A RESULT OF REPEATED SMALL ASPIRATIONS. SHORTNESS OF BREATH AND COUGHING ARE THE MOST COMMON SYMPTOMS. ASPIRATION MAY LEAD TO PULMONARY EDEMA AND HEMORRHAGE AND MAY BE FATAL. SIGNS OF LUNG INVOLVEMENT INCLUDE INCREASED RESPIRATION AND HEART RATES AS WELL AS A BLUISH DISCOLORATION OF THE SKIN. CHRONIC SKIN CONTACT MAY PROMOTE DERMATITIS AND OIL ACNE. IN RARER CASES, AN INCREASED SENSITIVITY TO SUNLIGHT (PHOTOSENSITIVITY) MAY OCCUR. PROLONGED EXPOSURE MAY CAUSE KIDNEY EFFECTS, FACIAL FLUSHING, LOW BLOOD PRESSURE, AND SLOW HEARTBEAT. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING HEART, KIDNEY, AND LIVER DISEASES; PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: BLOOD, CENTRAL AND PERIPHERAL NERVOUS SYSTEMS, HEART, LUNGS, KIDNEYS, AND LIVER. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT.

Primary Routes of Entry		
<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion	<input checked="" type="checkbox"/> Absorption

Emergency First Aid Procedures:

Inhalation:
REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

Eye Contact:
RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

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 MILK (IF NOT AVAILABLE, GIVE WATER), BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

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. DEPENDING ON THE AMOUNT INGESTED AND RETAINED AS WELL AS THE TOXICITY OF THE PRODUCT, GASTRIC LAVAGE SHOULD BE CONSIDERED. KEEP PATIENT'S HEAD BELOW HIPS TO PREVENT PULMONARY ASPIRATION. IF COMATOSE, A CUFFED ENDOTRACHEAL TUBE WILL PREVENT ASPIRATION.

Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:				
<input type="checkbox"/> IARC	<input type="checkbox"/> NTP	<input type="checkbox"/> OSHA	<input type="checkbox"/> ACGIH	<input type="checkbox"/> Other

VOC CONTENT: 100% BY WEIGHT; 100% BY VOLUME; 816 G/L

CUMENE
 ORL-RAT LD50: 1400 MG/KG 3.
 IHL-HMN TCLo: 200 PPM 3.
 IHL-RAT LC50: 8000 PPM/4H 4.
 SKN-RBT LD50: 12300 UL/KG 3.
 SKN-RBT SDT: 100 MG/24H MODERATE 3.
 EYE-RBT SDT: 500 MG/24H MILD 3.

XYLENE
 ORL-HMN LDLo: 50 MG/KG 3.
 ORL-RAT LD50: 4300 MG/KG 3.
 IHL-HMN TCLo: 200 PPM 3.
 SKN-RBT LD50: >1700 MG/KG 3.
 SKN-RBT SDT: 500 MG/24H MODERATE 3.
 EYE-HMN SDT: 200 PPM 3.
 EYE-RBT SDT: 5 MG/24 SEVERE 3.

XYLENE CAUSES HEARING LOSS, CARDIAC STIMULATION, AND ARRHYTHMIA (IRREGULAR HEART BEAT) IN LABORATORY ANIMALS. 4.

1,3,5-TRIMETHYLBENZENE
 ORL-RAT TDLo: 2100 MG/KG/14D-C 3.
 IHL-HMN TCLo: 10 PPM 3.
 SKN-RBT SDT: 20 MG/24H MODERATE 3.
 EYE-RBT SDT: 500 MG/24H MILD 3.

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

LIGHT AROMATIC PETROLEUM NAPHTHA
 ORL-RAT LD50: 8400 MG/KG 3.
 IHL-RAT TCLo: 1320 PPM/6H/90D-I 3.
 EYE-RBT SDT: 100 UL/24H MILD 3.

HYDROCARBON MISTS DERIVED FROM PETROLEUM DISTILLATES ARE REPORTED TO HAVE LOW ACUTE AND SUB-ACUTE TOXICITIES IN ANIMALS. EFFECTS FROM SINGLE AND SHORT-TERM REPEATED EXPOSURES TO HIGH CONCENTRATIONS WELL ABOVE APPLICABLE WORKPLACE EXPOSURE LEVELS INCLUDE LUNG INFLAMMATORY REACTION, LIPOID GRANULOMA FORMATION, AND LIPOID PNEUMONIA. IN ACUTE AND SUB-ACUTE STUDIES INVOLVING EXPOSURES TO LOWER CONCENTRATIONS AT OR NEAR CURRENT WORK PLACE EXPOSURE LEVELS PRODUCED NO SIGNIFICANT TOXICOLOGICAL EFFECTS. IN LONG TERM STUDIES (UP TO TWO YEARS) NO CARCINOGENIC EFFECTS HAVE BEEN REPORTED IN ANY ANIMAL SPECIES TESTED. THESE PETROLEUM DISTILLATES ARE SEVERELY HYDROTREATED, SEVERELY SOLVENT EXTRACTED, AND/OR PROCESSED BY MILD HYDROTREATMENT AND EXTRACTION. FOR THIS REASON, THEY ARE NOT CLASSIFIED AS CANCER HAZARDS. 4.

STRAIGHT RUN MIDDLE PETROLEUM DISTILLATE
 IHL-RAT LC50: 1700 MG/M3/4H 3.
 ORL-RAT LD: >5 G/KG 3.
 SKN-RBT LD: >2 G/KG 3.
 SKN-RBT SDT: 500 MG MODERATE 3.

EXPOSURE TO THIS MATERIAL (OR A COMPONENT) HAS BEEN FOUND TO CAUSE KIDNEY DAMAGE IN MALE RATS. THE MECHANISM BY WHICH THIS TOXICITY OCCURS IS SPECIFIC TO THE MALE RAT AND THE KIDNEY EFFECTS ARE NOT EXPECTED TO OCCUR IN HUMANS. OVER EXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: MILD, REVERSIBLE LIVER EFFECTS. 3.

ISOPROPANOL
 ORL-HMN LDLo: 3570 MG/KG 3.
 ORL-RAT LD50: 5045 MG/KG 3.
 IHL-RAT LC50: 16000 PPM/8H 3.
 SKN-RBT LD50: 12800 MG/KG 3.
 SKN-RBT-SDT: 500 MG MILD 3.
 EYE-RBT-SDT: 10 MG MODERATE 3.

KIDNEY EFFECTS AND/OR TUMORS HAVE BEEN OBSERVED IN MALE RATS. 4.

Section VII - Reactivity Data

Stability	
<input checked="" type="checkbox"/> Stable	<input type="checkbox"/> Unstable
Conditions to Avoid:	
AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.	

Hazardous Polymerization	
<input checked="" type="checkbox"/> Will not occur	<input type="checkbox"/> May occur
Conditions to Avoid:	
N/A	

Incompatibility (Materials to Avoid):
 STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; ACIDS, ALDEHYDES, CHLORINATED COMPOUNDS, CAUSTICS, HALOGENS, AMINES, AND ALKANOLAMINES.

Hazardous Decomposition Products:

OXIDES OF CARBON, NITROGEN, AND SULFUR; HYDROCARBONS.

Section VIII - Spill Or Leak Procedures

Steps to be Taken if Material is Released or Spilled:

WEAR APPROPRIATE PROTECTIVE CLOTHING. ELIMINATE ALL SOURCES OF IGNITION AND VENTILATE THE AREA. USE ONLY NON-SPARKING EQUIPMENT. USE CARE AS SPILLS MAY BE SLIPPERY. SHUT OFF SOURCE OF LEAK. DIKE AND CONTAIN SPILL. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER. FLUSH AREA WITH 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 EXCESSIVE LEVELS OF VAPORS OR MISTS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:

RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEPIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL, CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 87-116 OR ANSI Z88.2-1992.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF APPLICATION PRESENTS THE LIKELIHOOD OF EYE CONTACT. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING. REMOVE SOAKED CLOTHING AND SHOES. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

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 THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAME. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES WHICH MAY EXHIBIT THE HAZARDS OF THE PRODUCT. TO AVOID POSSIBLE EXPLOSION 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. BULK STORAGE: FOR MAXIMUM PRODUCT LIFE, STORE INDOORS. OUTDOOR STORAGE TIP: STORE CONTAINERS ON THEIR SIDE TO HELP PREVENT WATER ACCUMULATION ON A FLAT END AND CONSEQUENT PRODUCT CONTAMINATION.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

Section XI - Regulatory Information

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Upper % Limit</u>
1,2,4-TRIMETHYLBENZENE	95-63-6	20
XYLENE	1330-20-7	5
CUMENE	98-82-8	5
NAPHTHALENE	91-20-3	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, BIOLOGICAL EXPOSURE INDICES, 2006.
2. OSHA PEL.
3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINPOWeb, 2006.
4. VENDOR'S MSDS.

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, TOX: TOXIC, IHL: INHALATION, COMB: COMBUSTIBLE, CORR: CORROSIVE, CARC: CARCINOGENIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, PMCC: PENSKY-MARTIN CLOSED CUP, TCC: TAGLIABUE CLOSED CUP, LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT, HMN: HUMAN, IARC: INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, ORL: ORAL, 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, PNR: PARTICULATES NOT OTHERWISE REGULATED, PNO: PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT: STANDARD DRAIZE TEST

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

CERTIFIED LABS, DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage, or disposal of the product.

©2008 [NCH Corporation](http://www.nchcorp.com) All rights reserved.