

CUSTOMER: B0155626
BATCH #: 053080011
ZONE #: AER2
BARCODE #: 9153346664 0003
PRODUCT NAME: YIELD AEROSOL

ORDER #: 0310
STICKER #: 053080580

MATERIAL SAFETY DATA SHEET: YIELD AEROSOL

DATE OF ISSUE 9/21/2004
SUPERSEDES 8/23/2001

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms N/A
Chemical Family: PETROLEUM DISTILLATE MIXTURE
Manufacturer's Name: CHEMSEARCH DIV. OF NCH CORP.
Address: BOX 152170
IRVING, TX 75015
Prepared By: T. Boynton/Chemstat
Product Code Number 5068
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 #
ALIPHATIC PETROLEUM DISTILLATES	FLAM/IRK	100 PPM*1	500 PPM**2	N/E	111-79-6
ETHYL ACETATE	FLAM/IRK	400 PPM	2	N/E	68608-26-4
SODIUM SULFONATE	IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10MG/M3 \$1	64742-53-6
SYNTHETIC ISOPARAFFINIC HYDROCARBON	IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10MG/M3 \$1	64742-47-6
N-BUTANE	FLAM/ASPHY	1000 PPM	1	N/E	106-97-8
PROPANE	FLAM/ASPHY	1000 PPM	1	N/E	74-98-6

SECTION III - PHYSICAL DATA

Boiling Point (°F): 160-203	Specific Gravity (H2O=1): 0.84	Color: AMBER-DARK AMBER	Odor: PETROLEUM/VINEGAR	Clarity: TRANSPARENT	% Volatile by Volume: 71	H2O Solubility: NEG/IGIBDE	Viscosity: NON-VISCOUS
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SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point <80°F / SETAFASH	Flammable Limits PRODUCT MIXTURE	LEL 0.5%	UEL 11.5%
Extinguishing Media X <--Foam	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 FLIGHTS ON WATER. FLAME EXTENSION IS > 18 INCHES. BURNBACK IS > 3 INCHES.	Aerosol Level (NFPA 308): 3
NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)	2 <--Health 4 <--Flammability 0 <--Instability <--Special	SECTION V - HEALTH HAZARD DATA	

Threshold Limit Value: NOT ESTABLISHED FOR MIXTURE. SEE SECTION III.
Acute (Short Term Exposure) EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS TEARING, SWELLING, STINGING, REDNESS, A BURNING SENSATION, BLURRED VISION, AND EXCESSIVE BLINKING. MAY CAUSE CONTINGENT IRRITATION SEEN AS CORNEAL DAMAGE.
SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING, REDNESS, SWELLING, AND A BURNING SENSATION. PROLONGED OR REPEATED CONTACT AS FROM CLEANING WET WITH OIL MAY CAUSE DRYING, DETACHING, AND CRACKING OF THE SKIN. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS.
INHALATION: MAY CAUSE DRYING, DETACHING, AND CRACKING OF THE SKIN. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS.
INHALATION: MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, NO HARMFUL EFFECTS ARE EXPECTED AT HIGH VAPOR CONCENTRATIONS, AND RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING AT LOW VAPOR CONCENTRATIONS.

MATERIAL SAFETY DATA SHEET: YIELD AEROSOL

SECTION V - HEALTH HAZARD DATA (Continued)

ingestion, may cause irritation with possible nausea, vomiting, diarrhea, and effects similar to inhalation. 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
On rare occasions, prolonged and repeated exposure to oil 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. This product has a narcotic and central nervous system depressive effect. May cause kidney and liver congestion in high concentrations. May cause anemia, edema, leukocytosis and a degeneration of the viscera fats. Prolonged exposure is associated to bronchitis, hepatic, renal, and cardiac damages and blood alterations.
Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis; pre-existing blood, cardiovascular, liver, kidney, heart, central nervous system, cardiovascular system, and blood-forming organs.

Primary Routes of Entry: X <--Inhalation X <--Ingestion X <--Absorption

Emergency and 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. Get immediate medical attention. Do not give anything by mouth to an unconscious or consulting 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 his to prevent pulmonary aspiration. If comatose, a cuffed endotracheal tube with prevent aspiration.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By: IARC--> No NTP--> No CSHA--> No ACGIH--> No OTHER--> No

ALIPHATIC PETROLEUM DISTILLATES

ORL-RAT LD50: >25 ML/KG
ORL-RAT LD50: >710 PPM/4HR
SKN-RBT LD50: 5 ML/KG
SKN-RBT LD50: 5 ML/KG
SKN-RBT LD50: 5 ML/KG
SKN-RBT LD50: 5 ML/KG
EYE-RBT: MODERATE IRRITATION 3.
EYE-RBT: NEGLECTIBLE IRRITATION 3.

ANIMAL DATA SUGGEST THAT SLIGHT ANEMIA, ALABRIVE LIVER CHANGES, AND KIDNEY TOXICITY MAY BE CAUSED BY REPEATED OVEREXPOSURE TO SOME SIMILAR SOLVENTS. THE SIGNIFICANCE OF THIS TO HUMANS IS UNKNOWN. 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 WERE 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. 3.

SODIUM SULFONATE

ORL-RAT LD50: >5 G/KG 3.
SKN-RAT LD50: >2 G/KG 3.

LIGHT NAPHTHENIC HYDROTREATED PETROLEUM DISTILLATES

ORL-RAT LD50: >5 GM/KG 3.
SKN-RBT LD50: >2 GM/KG 3.
SKN-RBT SDT: 500 MG SEVERE 3.

SYNTHETIC ISOPARAFFINIC HYDROCARBON

ORL-RAT LD50: >290 PPM 3.
SKN-RBT LD50: >10 G/KG 3.
SKN-RBT LD50: >3 G/KG 3.
SKN SENSITIZER: NO 3.
SKN IRRITATION: SLIGHT 3.
EYE IRRITATION: SLIGHT 3.

SYNTHETIC ISOPARAFFINIC HYDROCARBON WAS ADMINISTERED ORALLY 5 DAYS/WEK TO MALE AND FEMALE RATS AT 100, 500 OR 1000 MG/KG FOR 13 WEEKS. AN ADDITIONAL GROUP WAS DOSED WITH 100 MG/KG FOR 13 WEEKS FOLLOWED BY A 4-WEEK RECOVERY PERIOD. NO MORTALITIES OR CLINICAL EFFECTS WERE OBSERVED. LIVER AND KIDNEY WEIGHTS FOR THE 500 AND 1000 MG/KG EXPOSURE GROUPS WERE SIGNIFICANTLY INCREASED. AFTER THE 4-WEEK RECOVERY PERIOD, THERE WERE NO DIFFERENCES IN ORGAN WEIGHTS.

4. N-BUTANE
IHL-RAT LD50: 658 G/M3/4H
3. PROPANE
IHL-LC50: >40% BY VOLUME 3.
HUMAN VOLUNTEERS EXPOSED REPEATEDLY TO GASES OF SIMILAR HYDROCARBON MIXTURES RANGING FROM 250 TO 1000 PPM EXHIBITED NO CARDIAC OR PULMONARY FUNCTION ABNORMALITIES. 3.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable
Conditions to Avoid: AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.

SECTION VII - REACTIVITY DATA (continued)

INCOMPATIBILITY: (Materials to Avoid):
 STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH, CONCENTRATED HYDROGEN PEROXIDE, DICHROMATES, LITHIUM TETRAHYDROALUMINATE, LITHIUM ALUMINUM HYDRIDE, CHROMIUM TRIOXIDE, CHLOROSULFONIC ACID, 2-CHLOROMETHYLPURAN, MINES, AND ALUMINA.

Hazardous decomposition products: CARBON, NITROGEN

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hazardous polymerization: Conditions to Avoid: X --May Occur X --Will Not Occur

[illegible]

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be taken if Material is Released or Spilled:

DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, WEAR APPROPRIATE PROTECTIVE CLOTHING, ELIMINATE ALL SOURCES OF IGNITION, VENTILATE THE AREA, ABSORB WITH AN INERT MATERIAL, AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS PILLS MAY BE SUCCINCT.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

Neutralizing Agent:

SECTION IX - SPECIAL PROTECTION INFORMATION

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF MISTS OR VAPORS. LOCAL VENTILATION IS REFERRED TO 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 equipment with appropriate chemical cartridges may be used. For concentrations above the TLV and/or PEL but less than 10 times the TLV and/or PEL, a NIOSH approved half-mask 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. 87-114 or ANSI Z95.2-1992.

Love Protection:
COBLENCE 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.

Protection:
Chemical goggles should be worn when handling. Ensure compliance with OSHA's personal protective equipment (PPE) standard for eye and face protection, 29 CFR 1910.133.

GENERAL-DUTY WORK CLOTHING AND SHOES. REMOVE OIL SOAKED CLOTHING AND SHOES. WASH CLOTHING AND SHOES. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE. A SAFETY SHOWER AND AN EYE WASH STATION SHOULD BE AVAILABLE.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature:	Indoors--> X	Outdoors-->	Heated-->	Refrigerated-->
Minimum Temperature: 35°F				
Maximum Temperature: 120°F				

Precautions to be Taken in Handling and Storing:

SAFETY PRECAUTIONS: (1) Do not use in the presence of open flame, sparks, or other sources of ignition. (2) Do not use in the presence of flammable or combustible vapors or liquids. (3) Do not use in the presence of explosive atmospheres. (4) Do not use in the presence of oxidizing agents. (5) Do not use in the presence of strong acids or bases. (6) Do not use in the presence of strong reducing agents. (7) Do not use in the presence of strong oxidizing agents. (8) Do not use in the presence of strong acids or bases. (9) Do not use in the presence of strong reducing agents. (10) Do not use in the presence of strong oxidizing agents.

NOT FOR REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

SECTION XI - REGULATORY INFORMATION

NOT FOR REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

IN REVENUE ACCOUNTING - IN NOTES

SECTION XI - REGULATORY INFORMATION

CAS Number

Ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund

----- Please call 1-800-527-9919 for additional information if you are a California customer. -----

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE.

SECTION XII - REFERENCES

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, A

REGISTER OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, COLINFOHb, 2004.
VENDOR'S MSDS.
THE COMPONENTS OF THIS PRODUCT ARE IN A

ALL SUBSTANCES CONTROL ACT (ISCA) AND ARE EITHER LISTED ON
ISCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING

*CORROSIVE, FLAMMABLE, COMBUSTIBLE,
IRRITANT, N/A NOT ESTABLISHED, N/A NOT

LOWER EXPLOSION LIMIT, DEL: UPPER EXPLOSION LIMIT.

NATIONAL FIRE PROTECTION ASSOCIATION, LABOR INTERNATIONAL

AMERICAN CONFERENCE OF GOVERNMENTAL INSTITUTIONS
1515 K STREET, N.W., WASHINGTON, D.C. 20005
202-462-1000

REMARKS: NO OTHER EXPOSURE DATA AVAILABLE.

DATE OF BIRTH: 08-09-1967
PLACE OF BIRTH: [REDACTED]

MATERIAL SAFETY DATA SHEET: YIELD AEROSOL

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SECTION XII - REFERENCES (Continued)

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 THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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