

(058801-0180M -B0184367-5624 )

DATE OF ISSUE 04/20/94	SUPERSEDES 03/09/94
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SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS  
N/A

TRADE NAME & SYNONYMS  
GLO SS PLUS AEROSOL

CHEMICAL FAMILY  
PETROLEUM MIXTURE

FORMULA  
X<--MIXTURE

MANUFACTURERS NAME:  
CHEMSEARCH DIV. OF NCH CORP.

ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)  
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IRVING, TEXAS 75015

PREPARED BY: R STOLLEY/CHEMIST

PRODUCT CODE NUMBER  
5624

EMERGENCY TELEPHONE NUMBER  
214-438-1381

MAR 14 1995

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS.

CHEMICAL NAME (INGREDIENTS) :  
d-LIMONENE

HAZARD-->>COMB/IRR.	TLV--->NOT EST. 1	PEL-->NOT EST. 2
STEL(TWA)* ->NOT EST.	CAS#-->5989-27-5	

CHEMICAL NAME (INGREDIENTS) :  
HYDROTREATED HEAVY NAPHTHA

HAZARD-->>FLAMM/IRR	TLV--->400 PPM 1	PEL-->NOT EST. 2
STEL(TWA)* ->NOT EST.	CAS#-->64742-48-9	

CHEMICAL NAME (INGREDIENTS) :  
WHITE MINERAL OIL

HAZARD-->>OIL MIST	TLV--->5 MG/M3 1	PEL-->5 MG/M3 2
STEL(TWA)* ->10 MG/M3	CAS#-->8042-47-5	

CHEMICAL NAME (INGREDIENTS) :  
PROPANE

HAZARD-->>FLAM/ASPHX	TLV--->NOT EST. 1	PEL-->1000 PPM 2
STEL(TWA)* ->NOT EST.	CAS#-->74-98-6	

GLO SS PLUS AEROSOL

(CONTINUED)

SECTION II- HAZARDOUS INGREDIENTS

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CHEMICAL NAME (INGREDIENTS) :  
ISOBUTANE

HAZARD-->>FLAMM/IRR	TLV--->NOT EST. 1	PEL-->NOT EST. 2
STEL(TWA)* ->NOT EST.	CAS#-->72-28-5	

CHEMICAL NAME (INGREDIENTS) :  
N-BUTANE

HAZARD-->>FLAMMABLE	TLV--->800 PPM 1	PEL-->800 PPM 2
STEL(TWA)* ->NOT EST.	CAS#-->106-97-8	

SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT)	244	SPEC GRAVITY (H2O=1)	:0.784
VAPOR PRESSURE (MM HG)	36	COLOR	LIGHT YELLOW
VAPOR DENSITY (AIR=1)	3.9	ODOR	ORANGE
PH @ 100%	N/A	CLARITY	CLEAR
PERCENT VOLATILE BY VOLUME (%)	50	EVAPORATION RATE (BU AC = 1)	<1.0
SOLUBILITY IN WATER	INSOLUBLE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED) 57:F SETA	FLAMMABLE LIMITS HYDROTREATED NAPHTHA	LEL 0.9%	UEL 7.0%
EXTINGUISHING MEDIA X<--FOAM	"ALCOHOL" X<--FOAM	DRY X<--CHEMICAL	WATER X<--SPRAY
SPECIAL FIRE FIGHTING PROCEDURES WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. WATER SPRAY MAY BE USED TO COOL FIRE EXPOSED CONTAINERS.			

UNUSUAL FIRE & EXPLOSION HAZARDS  
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO AREAS DISTANT FROM THE HANDLING POINT WHERE THEY MAY IGNITE OR EXPLODE AROUND IGNITION SOURCES.  
FLAME EXTINCTION:>30 INCHES. BURNBACK: 6 INCHES.

## LEVEL 3 AEROSOL (NFPA 30B)

NFPA HAZARD RATING (0=INSIGNIFICANT;1=SLIGHT;2=MODERATE;3=HIGH;4=EXTREME):  
 2 <--HEALTH 4 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :  
 NOT ESTABLISHED FOR PRODUCT MIXTURE. SEE SECTION II.

## EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)  
 <>EYES: MAY CAUSE SEVERE IRRITATION, TEARING, REDNESS AND BLURRED VISION.<>  
 ~SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE IRRITATION, DERMATITIS AND  
 POSSIBLE AN ALLERGIC REACTION.~  
 INHALATION: EXCESSIVE INHALATION OF VAPORS OR MIST CAN CAUSE IRRITATION OF  
 THE RESPIRATORY TRACT WITH POSSIBLE NAUSEA, DIZZINESS, VOMITING,  
 DROWSINESS, CENTRAL NERVOUS SYSTEM EFFECTS, ALLERGIC REACTION AND  
 POSSIBLE UNCONSCIOUSNESS.  
 ^INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION WITH NAUSEA, VOMITING AND  
 DIARRHEA.  
 ASPIRATION HAZARD: INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN  
 LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS, WHICH CAN CAUSE DAMAGE  
 AND COULD BE FATAL. ^

- CHRONIC - (LONG TERM EXPOSURE)  
 NO DATA AVAILABLE FOR CHRONIC HEALTH HAZARDS.  
 TARGET ORGANS: NONE KNOWN.  
 ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO OIL MIST POSES A  
 PULMONARY DISEASE SUCH AS 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. ADDITIONALLY, DERMAL  
 OR SKIN SENSITIZATION IS POSSIBLE IN PERSONS WHO ARE SENSITIVE TO ORANGE  
 OIL WHICH CAN LEAD TO AN ACUTE DERMAL OR RESPIRATORY ALLERGIC REACTION.

PRIMARY ROUTE OF ENTRY: X<-- INHALATION <-- INGESTION <-- ABSORPTION

## EMERGENCY &amp; 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 THE EYES 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 AREA WITH SOAP AND WATER FOR SEVERAL MINUTES. REMOVE AND  
 CLEAN CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF  
 IRRITATION DEVELOPS.

## GLO SS PLUS AEROSOL

INGESTION:  
 GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING  
 OCCURS GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION.

NOTES TO PHYSICIAN:  
 ASPIRATION HAZARD: INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN  
 LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND  
 COULD BE FATAL.

## SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	<--YES	NTP	<--YES	OSHA	<--YES	ACGIH	<--YES	OTHER	<--YES
X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO	X<--NO

## d-LIMONENE

ORL-RAT LD50: 4400 MG/KG 3.  
 ORL-MUS LD50: 5600 MG/KG 3.  
 d-LIMONENE HAS EXHIBITED REPRODUCTIVE, TERATOGENIC, LIVER AND REPRODUCTIVE  
 EFFECTS VIA REPEATED DOSING OF LABORATORY ANIMALS IN SOME STUDIES. 3.

HYDROTREATED HEAVY NAPHTHA  
 LABORATORY ANIMAL STUDIES HAVE SHOWN THAT PROLONGED AND REPEATED  
 INHALATION EXPOSURE TO LIGHT HYDROCARBON VAPOR IN THE SAME NAPHTHA BOILING  
 RANGE AS THIS PRODUCT CAN PRODUCE ADVERSE LIVER EFFECTS IN MALE RATS  
 HOWEVER, THESE EFFECTS WERE NOT OBSERVED IN SIMILAR STUDIES WITH FEMALE  
 RATS AND MALE AND FEMALE MICE AND IN LIMITED STUDIES WITH OTHER ANIMAL  
 SPECIES. ALSO, IN A NUMBER OF HUMAN STUDIES, THERE WAS NO CLINICAL  
 EVIDENCE OF SUCH EFFECTS AT NORMAL OCCUPATIONAL LEVELS. IT IS THEREFORE  
 HIGHLY UNLIKELY THAT THE KIDNEY EFFECTS OBSERVED IN MALE RATS HAVE  
 SIGNIFICANT IMPLICATIONS FOR HUMANS IN THE WORKPLACE EXPOSED AT OR BELOW  
 RECOMMENDED TLV'S.

SKN-RBT LD50: >3.16 G/KG	3.	PROPANE	NO DATA AVAILABLE
ORL-RAT LD50: >5 G/KG	3.	ISOBUTANE	NO DATA AVAILABLE
BUTANE			
IHL-MUS LC50: 680 G/M3/2H	3.		
IHL-RAT LC50: 658 G/M3/4H	3.		
WHITE MINERAL OIL			
NO DATA AVAILABLE			

## SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABL	CONDITIONS TO AVOID
			HEAT, HOT SURFACES, SPARKS OR OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID)  
 AVOID STRONG OXIDIZERS SUCH AS CHLORINE, CONCENTRATED OXYGEN OR  
 BLEACH.

HAZARDOUS DECOMPOSITION PRODUCTS  
OXIDES OF CARBON, ACRID SMOKE AND FUMES AND ALDEHYDES.

HAZARDOUS	WILL NOT X <--OCCUR	MAY <--OCCUR	CONDITIONS TO AVOID
POLYMERIZATION	N/A		

## SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
REMOVE IGNITION SOURCES. DUE TO THE NATURE OF THE AEROSOL PACKAGING OF  
THIS PRODUCT, A LARGE SPILL IS UNLIKELY. STOP LEAK AND ABSORB SPILLED  
MATERIAL WITH AN INERT ABSORBANT MATERIAL AND PLACE INTO LABELED CONTAINERS  
FOR PROPER DISPOSAL.

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

NEUTRALIZING AGENT  
N/A

## SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION  
LOCAL EXHAUST IS RECOMMENDED.

RESPIRATORY PROTECTION  
NONE NORMALLY REQUIRED WITH ADEQUATE VENTILATION. USE A NIOSH APPROVED  
RESPIRATOR WHEN WORKING IN CONFINED OR POORLY VENTILATED AREAS.

PROTECTIVE GLOVES  
RUBBER GLOVES IF REPEATED OR PROLONGED CONTACT IS  
LIKELY.

EYE PROTECTION  
SAFETY GLASSES OR GOGGLES SHOULD BE WORN IF EYE  
CONTACT IS LIKELY.

OTHER PROTECTION  
EYE WASH AND SAFETY SHOWER.

## GLO SS PLUS AEROSOL

## SECTION X - STORAGE AND HANDLING INFORMATION PAGE : 06

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
120:F <--MAX O:F <--MIN	X			X

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING  
KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS OR OPEN  
FLAME.

OTHER PRECAUTIONS  
READ THE ENTIRE LABEL BEFORE USING THIS PRODUCT.  
KEEP OUT OF REACH OF CHILDREN.

## SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S. NUMBER	UPPER % LIMIT
N/A		

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.

IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT  
FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE  
JANITORIAL WORK OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS  
MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND  
LABELED FOR MAINTAINING MOTOR VEHICLES.

CALIFORNIA PROPOSITION 65  
WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO THE STATE OF  
CALIFORNIA TO CAUSE (1) CANCER OR (2) BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:  
BENZENE (1) AS A TRACE CONTAMINANT.

## SECTION XII - TRANSPORTATION \* (FOR FUTURE USE)

APPLICABLE REGULATIONS
<--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)

SHIPPING NAME

HAZARD CLASS	ID NUMBER	REPORT QTY

LABELS	LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER

NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

## SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, 1991-1992, ACGIH.
2. OSHA PEL.
3. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, SEVENTH EDITION, N. IRVING SAX AND RICHARD J. LEWIS, SR.

\*SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN THE FEDERAL REGISTER/VOL.54 NO.12, 1-19-89

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