MATERIAL SAFETY DATA SHEET: GLO SS PLUS AEROSOL

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS: TRADE NAME & SYNONYMS
N/A
CHEMICAL FAMILY: FORMULA
PETROLEUM MIXTURE: X--MIXTURE

MANUFACTURER'S NAME:
CHEMSEARCH DIV. OF NOH CORP.
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)
BOX 18210
IRVING, TEXAS 75019

PREPARED BY:
R. STOLLEY/CHEMIST

PRODUCT CODE NUMBER:
214-438-1381

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS:

CHEMICAL NAME (INGREDIENTS):
1. LIMONENE
   HAZARD: --COMB/IRR STEL(TWA)= --NOT EST. TLV-->NOT EST. 1 PEL-->NOT EST. 2
   CAS#:--5989-27-5

2. HYDROTERATED HEAVY NAPHTHA
   HAZARD: --FLAM/IRR STEL(TWA)= --NOT EST. TLV-->400 PPM PEL-->NOT EST. 2
   CAS#:--647742-48-9

3. WHITE MINERAL OIL
   HAZARD: --DIL MIST STEL(TWA)= --NOT EST. TLV-->5 MG/M3 PEL-->5 MG/M3
   CAS#:--8042-47-5

4. PROPANE
   HAZARD: --FLAM/ASPHX STEL(TWA)= --NOT EST. TLV-->1000 PPM PEL-->1000 PPM
   CAS#:--74-98-6

SECTION III - PHYSICAL DATA

BOILING PT (FAHRENHEIT): 124
SPEC GRAVITY (H2O=1): 0.784
VAPOR PRESSURE (MM HG): 139
COLOR: LIGHT YELLOW
DENSITY (AIR=1): 3.9
ODOR: ORANGE
FREEzing POINT: N/A
CLARITY: CLEAR
BY VOLUME (%):
SOLUBILITY IN WATER: INSOLUBLE
VISCOSITY: NON-VISCIOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED): 119 F
FLAMMABLE LIMITS AT STP: LEL: 0.9% UEL: 7.0%

EXTINGUISHING MEDIA: WATER
DRY MEDIA<br>ALCOHOL<br>OTHER

SPECIAL FIRE FIGHTING PROCEDURES:

SPECIAL PROTECTION APPARATUS AND FULL PROTECTIVE GEAR. WATER SPRAY MAY BE USED TO COOL FIRE EXPOSED CONTAINERS.

UNUSUAL FIRE & EXPLOSION HAZARDS:

FLAMMABLE THAN AIR AND MAY TRAVEL TO AREAS DISTANT FROM THE MISTING POINT WHERE THEY MIGHT IGNITE OR EXPLODE AROUND IGNITION SOURCES.

FLAME EXTENSION: >30 INCHES. BURNBACK: 6 INCHES.
GLO SS PLUS AEROSOL

(CONTINUED)

SECTION IV - FIRE AND EXPLOSION HAZARD

LOW (NL)

NOT A SIGNIFICANT (EXTREME): 2 < HEALTH < FLAMMABILITY < 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 POSSIBLY AN ALLERGIC REACTION. INHALATION: EXCESSIVE INHALATION OF VAPORS OR MIST CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT WITH POSSIBLE NAUSEA, TINGLING, DROWSINESS, CENTRAL NERVOUS SYSTEM EFFECTS, ALLERGIC REACTION AND POSSIBLY UNCONSCIOUSNESS. ASPIRATION HAZARD: 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.

NO DATA AVAILABLE FOR CHRONIC HEALTH HAZARDS.

TARGET ORGANS: NONE KNOWN.

RARE OCCASIONS: PROLONGED AND REPEATED EXPOSURE TO OIL MIST CAN CAUSE A PULMONARY DISEASE SUCH AS CHRONIC LUNG IRRITATION. 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 OILS WHICH CAN LEAD TO AN ACUTE DERMAL OR RESPIRATORY ALLERGIC REACTION.

PRIMARY ROUTE OF ENTRY: X INHALATION 〈 INGESTION 〈 ABSORPTION 〈 EMERGENCY & FIRST AID PROCEDURES

INHALATION: REMOVED FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION, IRRITATION OR SYMPTOMS OF EXPOSURE TO OILS DEVELOP OR IF BREATHING BECOMES DIFFICULT.

EYE CONTACT: IMMEDIATELY RINSE EYES WITH LARGE QUANTITIES OF WATER. REMOVE ANY CONTACT LENSES AND CONTINUE TO RINSE FOR AT LEAST 15 MINUTES. HOLD THE EYES APART TO ENSURE RINSE OF THE ENTIRE SURFACE OF THE EYES AND IDS WITH WATER. SEEK 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.

(CONTINUED)

SECTION V - HEALTH HAZARD DATA

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE SMALL QUANTITIES OF WATER. IF NAUSEA PERSIST, SEEK IMMEDIATE MEDICAL ATTENTION.

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

d-LIMONENE

DRL-RTS LD50: 4400 MG/KG 3.
DRL-WAS LD50: 5000 MG/KG 3.
AD-LIMONENE HAS EXERTED REPRODUCTIVE, TERATOGENIC, LIVER AND REPRODUCTIVE EFFECTS VIA REPEATED DOSING OF LABORATORY ANIMALS IN SOME STUDIES. 3.

HYDROCARBON 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. ALTHOUGH A NUMBER OF HUMAN EXPOSURES WAS MADE, THE RESULTS DO NOT SUGGEST THAT THE KIDNEY EFFECTS OBSERVED IN RATS HAVE SIGNIFICANT IMPLICATIONS FOR HUMANS IN THE WORKPLACE EXPOSED AT OR BELOW RECOMMENDED TLV'S. 3.

SKN-RTS LD50: 3.16 G/KG 3.
DRL-RTS LD50: 5 G/KG 3.

BUTANE

NO DATA AVAILABLE

ISOBUTANE

INH-RTS LC50: 858 G/M3/4H 3.
NO DATA AVAILABLE

WHITE MINERAL OIL

NO DATA AVAILABLE

SECTION VII - REACTIVITY DATA

STABILITY: X STABLE 〈 UNSTABLE 〈 CONDITIONS TO AVOID: HEAT, HOT SURFACES, SPARKS OR OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID STRONG OXIDIZERS SUCH AS CHLORINE, CONCENTRATED OXYGEN OR BLEACH.
SECTION VII - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS
OXIDES OF CARBON, ACID SMoke AND FUMES AND ALDEHYDES.

HAZARDOUS X OCCUR MAY CONDITIONS TO AVOID
POLYMERIZATION N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

STATE 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 ABSE SPILLED MATERIAL WITH AN INERT ABSORBENT MATERIAL AND PLACE INTO LABELED CONTAINERS FOR PROPER DISPOSAL. 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
NORMAL AIR IS GENERALLY REQUIRED WITH ADEQUATE VENTILATION. USE A NIOSH APPROVED RESPIRATOR WHEN WORKING IN CONFINED OR POORLY VENTILATED AREAS.

PROTECTIVE GLOVES
RUBBER GLOVES IF REPEATED OF 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.

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE
120°F (49°C) MAX X
PROPER CONDITIONS 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

IF USE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE INDOOR WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GREENS 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 DEFORMITIES, OR OTHER REPRODUCTIVE HARM: BENZENE (1) AS A TRACE CONTAMINANT.

SECTION XII - TRANSPORTATION + (FOR FUTURE USE)

APPLICABLE REGULATIONS
<- 40 CFR <- IMDG <- TARIFF 6 D <- IATA <- MILITARY AIR (AFR 71-1)
SHIPPING NAME
HAZARD CLASS ID NUMBER LIMITED QTY
LABELS
UNIT CONTAINER
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

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

CHEMSEARCH 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.