## MSDS--DEPLOY-AEROSOL MATERIAL SAFETY DATA SHEET DEPLOY AEROSOL

DATE OF ISSUE:

03/28/2001

SUPERCEDES:

11/06/1998

# SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms:

N/A

Trade Name & Synonyms:

DEPLOY AEROSOL

The last living

Chemical Family:

Formula Mixture:

**HYDROCARBONS** 

Manufacturer's Name:

CHEMSEARCH DIV. OF NCH CORP.

Address:

BOX 152170

IRVING,

TX 75015

Prepared By:

C Williamson/Chemist

5441 Product Code Number:

Emergency Phone Number:

800-424-9300

## SECTION II - HAZARDOUS INGREDIENTS

# THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS:

Chemical Name (Ingredients):

N-HEXANE

Hazard: TLV:

FLAM/IRR 50 PPM

PEL:

50 PPM 2 N/E

STEL: CAS#:

110-54-3

Chemical Name (Ingredients):

CYCLOHEXANE

Hazard: TLV:

FLAM/IRR 300 PPM 2 300 PPM

PEL: STEL: CAS#:

N/E 110-82-7

Chemical Name (Ingredients):

2-METHYL PENTANE

Hazard:

FLAM/IRR N/E

TLV: PEL:

N/E

STEL: CAS#:

N/E 107-83-5

Chemical Name (Ingredients):

3-METHYL PENTANE

Hazard: TLV: PEL:

FLAM/IRR N/E N/E 2

STEL: CAS#: N/E 96-14-0

Chemical Name (Ingredients):

ISOPROPYL ALCOHOL

Hazard:

FLAM

TLV: PEL: STEL:

CAS#:

400 PPM 1 2 400 PPM 500 PPM 67-63-0

Page 1

```
Chemical Name (Ingredients):
                                    PROPANE
Hazard:
                                    FLAM
TLV:
                                    1000 PPM 1
PEL:
                                    1000 PPM 2
STEL:
                                    N/E
CAS#:
                                    74-98-6
Chemical Name (Ingredients):
                                    ISOBUTANE
Hazard:
                                    FLAM
TLV:
                                    N/E
                                              1
PEL:
                                    N/E
STEL:
                                    N/E
CAS#:
                                    75-28-5
                           SECTION III - PHYSICAL DATA
Boiling Point (f):
                                            154
Specific Gravity (H20=1):
                                            0.72
Vapor Pressure (MM HG):
                                            92.8
Color:
                                            OFF-WHITE
Vapor Density (Air=1):
                                            3.0
Odor:
                                            HEXANE
PH @ 100%:
                                            N/A
Clarity:
                                            CLOUDY
Volatile by Volume:
Evaporation Rate (BU A/C=1):
                                            78
                                            7.7
H20 Solubility:
                                            NEGLIGIBLE
Viscosity:
                                            NON-VISCOUS
                          SECTION IV - FIRE AND EXPLOSION HAZARD
Flash Point: <73°F
                        / SETAFLASH
Flammable Limits: HEXANE
                                                LEL: 1.0%
                                                                  UEL:7.0%
Extinguishing Media:
         Foam: X Alcohol Foam:
        Dry Chemical: X
                           Water Spray:
                                                 Other:
Special Fire Fighting Procedures:
         FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL
PROTECTIVE GEAR.
Unusual Fire and Explosion Hazards:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK. PRODUCT MAY PRODUCE A FLOATING FIRE HAZARD AS LIQUID FLOATS ON
WATER.FLAME EXTENSION>30 INCHES, BURNBACK 4 INCHES.
Aerosol Level (NFPA 30B):
NFPA 704 Hazard Rating:
         (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
        Health: 1
                      Flammability: 4
                                         Instability: 0
                                                                Special:
                 SECTION V - HEALTH HAZARD DATA
Threshold Limit Value:
        50 PPM AS N-HEXANE 1.
Effects of Overexposure:
        -Acute(Short Term Exposure)
```

MSDS--DEPLOY-AEROSOL

#### MSDS--DEPLOY-AEROSOL

SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. EYE CONTACT: MAY CAUSE IRRITATION SEEN AS TEARING AND REDNESS. INHALATION: AT LOW LEVELS OF CONCENTRATION, INITIAL SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS, NAUSEA, LOSS OF CONCENTRATION AND IRRITATION. WITH HIGH EXPOSURE LEVELS, CENTRAL NERVOUS SYSTEM DEPRESSION (INTOXICATION), AND CARDIAC ARRHYTHMIA. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARR- HEA. 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)
CHRONIC DATA: PROLONGED AND REPEATED INHALATION OF N-HEXANE MAY PRODUCE PERIPHERAL AND CENTRAL NERVE DAMAGE. PERIPHERAL NERVE DAMAGE MAY BE EVIDENCED BY MUSCULAR WEAKNESS AND LOSS OF SENSATION IN THE ARMS AND LEGS AND DECREASED BODY WEIGHT. MEDICAL CONDITIONS AGGRAVATED: PRE-EXISTING LIVER AND KIDNEY DISEASES AND PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: LIVER, LUNGS, SPLEEN, KIDNEY, AND CENTRAL NERVOUS SYSTEM.

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

Emergency and 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.

-Eve 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 PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-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 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.

## SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: No OTHER: NO NTP: No

OSHA: No

ACGIH: No

N-HEXANE

EYE-RBT: 10MG MLD

ORL-RAT LD50: 28710MG/KG 3.

IHL-RAT TCLO: 10000 PPM/7H(FEMALE 15D PRE):REP 3.

MIXED ISOMERS OF HEXANE (ISOPARAFFINS) HAS BEEN SHOWN TO CAUSE KIDNEY DAMAGE IN MALE RATS AND CARDIAC SENSITIZATION IN OTHER SPECIES. THE RELEVANCE OF THE KIDNEY EFFECTS TO MAN IS UNKNOWN. THERE IS NO EVIDENCE THAT EXPOSURE TO INDUSTRIALLY ACCEPTABLE LEVELS OF HYDROCARBONS HAVE PRODUCED CARDIAC EFFECTS IN HUMANS. SUCH SENSITIZATION, HOWEVER, MAY CAUSE FATAL CHANGES IN HEART RHYTHM. THIS LATTER EFFECT HAS BEEN SHOWN TO BE ENHANCED BY HYPOXIA OR THE

CYCLOHEXANE

INJECTION OF ADRENALIN-LIKE

AGENTS. 4.

SKN-RBT: 1548 MG/25-I ORL-RAT LD50: 29820 MG/KG

Page 3

## MSDS--DEPLOY-AEROSOL

2-METHYL PENTANE

ORL-RAT TDLO: 10 GM/KG/4W-I 3. 3-METHYL PENTANE

NO TOXICITY DATA AVAILABLE.

ISOPROPYL ALCOHOL

**ISOBUTANE** 

IHL-RAT LC50: 57PPH/15M

3.

ORL-RAT LD50: 5045 MG/KG IHL-RAT LC50: 16000PPM/8H

SKN-RBT LD50: 12800 MG/KG 3.

**PROPANE** 

NO TOXICITY DATA AVAILABLE.

SECTION VII - REACTIVITY DATA

Stability:

Stable: X

Unstable:

Conditions to Avoid: AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

Incompatibility (Materials to Avoid):

OXIDIZING AGENTS SUCH AS CHLORINE BLEACH, NITRIC AND SULFURIC ACIDS, HALOGENS, AMINES, AMMONIA, AND FINELY DIVIDED ALUMINUM.

Hazardous Decomposition Products:

OXIDES OF CARBON.

Hazardous Polymerization:

May Occur:

Will Not Occur: X

Conditions to Avoid: N/A

## SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled: ELIMINATE ALL SOURCES OF IGNITION. DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. APPROPRIATE PROTECTIVE CLOTHING. USE CARE AS SPILLS MAY BE SLIPPERY.

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:

NONE KNOWN.

# SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

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

Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS OF USE. A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL.

Glove Protection:

NEOPRENE RUBBER OR NITRILE GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE Page 4

CONTACT.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: I

Indoors: X

Outdoors:

Heated:

Refrigerated:
Minimum Temperature: 35°F

Maximum Temperature: 120°F

Precautions to be taken in Handling and Storing:

USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

Other Precautions:

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

SECTION XI - REGULATORY INFORMATION

Chemical Name CYCLOHEXANE CAS Number 110-82-7

Upper % Limit

5

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

#### SECTION XII - REFERENCES

- 1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1997.
- 2. OSHA PEL.
- 3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 1998.
- 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:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE CLOSEDCUP, 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, ACHGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LEVEL, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MUTAGENIC, ASPHYX:ASPHYXIANT, PNOC: PARTICULATES NOT OTHERWISE CLASSIFIED

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.

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.