

MATERIAL SAFETY DATA SHEET: DS-67 PLUS AEROSOL

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(000000-000000- -5635)

DATE OF ISSUE
6/24/2000

SUPPLEMENT
6/10/1999

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms
N/A

Trade Name & Synonyms
DS-67 PLUS AEROSOL

Chemical Family:
SOLVENT BLEND

Formula Mixture --> X

Manufacturer's Name:
CHEMSEARCH DIV. OF NCH CORP.

Address:
BOX 15217C
IRVING, TX 75015

Prepared By:
C WILLIAMSON/CHEMIST

Product Code Number
5635

Emergency Phone Number
800-424-9306

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

| Chemical Name (Ingredients) | Hazard | TLV | PEL | STEL | CAS # |
|-----------------------------------|------------|-------------|-------------|-------------|------------|
| METHYLENE CHLORIDE | IRR/CARC G | 50 PPM 1 | 25 PPM 2 | 125 PPM | 75-09-2 |
| SYMMETRIC ISOPHTHALIC HYDROCARBON | IRRITANT | 400 PPM 1 | NOT EST. 2 | NOT EST. | 64742-48-9 |
| PROPYLENE GLYCOL MONOMETHYL ETHER | IRRITANT | 100 PPM 1 | 100 PPM 2 | 150 PPM | 107-93-2 |
| TOLUENE | IRRITANT | 50 PPM 1 | 200 PPM 2 | 150 PPM | 108-88-3 |
| MEDIUM ALIPHATIC SOLVENT NAPHTHA | IRRITANT | 5 MG/M3 \$1 | 5 MG/M3 \$2 | 10 MG/M3 \$ | 64742-88-7 |
| PROPANE | ASPHYXIAN | NOT EST. 1 | NOT EST. 2 | NOT EST. | 74-98-6 |
| ISOBUTANE | IRRITANT | NOT EST. 1 | 1000 PPM 2 | NOT EST. | 75-28-5 |

\$ OIL MIST VALUES

SECTION IIa - NON-HAZARDOUS INGREDIENTS

(NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NO TRADE)

Secret Registry #: 409360-5509P

SECTION III - PHYSICAL DATA

| | | | |
|-------------------------|-------------|------------------------------|-------------|
| Boiling Point (F): | 103 | Specific Gravity (H2O=1): | 0.9C |
| Vapor Pressure (MM HG): | 140 | Color: | COLORLESS |
| Vapor Density (Air=1): | > 1 | Odor: | SWEET |
| PK @ 1004 : | N/A | Clarity: | TRANSPARENT |
| % Volatile by Volume: | 100 | Evaporation Rate (BU A/C=1): | < 1 |
| H2O Solubility: | NEGLECTIBLE | Viscosity: | NON-VISCOUS |

SECTION IV - FIRE AND EXPLOSION HAZARD

| | | | |
|--|-----------------------------|------------------|-----------------------|
| Flash Point 41 F / T.C.C. | Flammable Limits NAPHTHA | LEL 0.5% | UEL 7.0% |
| Extinguishing Media X --Foam | X --CO2 | X --Dry Chemical | --Water Spray --Other |
| Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. | | | |
| Unusual Fire and Explosion Hazards: PRODUCT MAY PRODUCE A FLOATING FIRE HAZARD AS LIQUID FLOATS ON WATER. FLAME EXTENSION: > 36 INCHES, BURNBACK: 6 INCHES. EXTREMELY FLAMMABLE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING. | | | |
| Aerosol Level (NFPA 305): 2 | | | |
| NFPA 704 Hazard Rating (0=Insignificant 1=slight 2=Moderate 3=High 4=Extreme) 1 --Health 2 --Flammability 3 --Reactivity --Special | | | |

SECTION V - HEALTH HAZARD DATA

Threshold Limit Values:

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SECTION V - HEALTH HAZARD DATA (Continued)

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

-Acute (Short Term Exposure)

EYE CONTACT: CAUSES IRRITATION SEEN AS TEARING, REDNESS, BLURRED VISION, AND A BURNING SENSATION. PROLONGED CONTACT MAY CAUSE SEVERE IRRITATION AND TRANSIENT CORNEAL INJURY. SKIN CONTACT: CAUSES IRRITATION SEEN AS REDNESS, ITCHING AND A BURNING SENSATION. PROLONGED CONTACT CAN CAUSE SEVERE IRRITATION AND A BURNING SENSATION AND MAY CAUSE LESIONS OF THE SKIN RESULTING IN DERMATITIS. 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 CARDIAL ARREST/VENTRITIS. INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION SEEN AS 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. ALCOHOL MAY EXACERBATE THE EFFECTS OF OVEREXPOSURE. AVOID ALCOHOL CONSUMPTION.

-Chronic (Long Term Exposure)

EXCESSIVE EXPOSURE MAY CAUSE CARBOXYHEMOGLOBINEMIA, THEREBY IMPAIRING THE BLOOD'S ABILITY TO TRANSPORT OXYGEN. TARGET ORGANS: CENTRAL NERVOUS SYSTEM, LIVER, KIDNEY, AND HEART. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS AND PRE-EXISTING LIVER AND KIDNEY DISEASES.

Primary Routes of Entry: X --Inhalation --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.

-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 1 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--> Yes NTP--> Yes OSHA--> No ACGIH--> No OTHER--> No

| | | | |
|---|----|----------------------------|----|
| METHYLENE CHLORIDE | | PROPANE AND ISOBUTANE | |
| ORL-RAT LD50: 1600 MG/KG | 3. | NO TOXICITY DATA AVAILABLE | |
| SKN-RBT: 810 MG/24H SEV | 3. | | |
| EYE-RAT: 151 MG MCD | 4. | | |
| INH-RAT (45): 48,000 PPM | 1. | | |
| METHYLENE CHLORIDE HAS BEEN SHOWN TO INCREASE THE RATE OF SPONTANEOUSLY OCCURRING MALIGNANT TUMORS IN THE B6C3F1 MOUSE AND BENIGN TUMORS IN LABORATORY RATS. OTHER ANIMAL STUDIES, AS WELL AS SEVERAL HUMAN EPIDEMIOLOGY STUDIES, FAILED TO SHOW A TUMORIGENIC RESPONSE. 5. A PROPORTIONATE MORTALITY STUDY SHOWED NO INCREASE IN DEATH FROM MALIGNANT NEOPLASMS AMONG WORKERS EXPOSED FOR UP TO 30 YEARS TO MEAN CONCENTRATIONS OF METHYLENE CHLORIDE RANGING FROM 33 PPM TO 118.8 PPM, WHEN COMPARED TO CONTROL POPULATIONS. 5. | | | |
| HYDROTREATED HEAVY NAPHTHA | | | |
| ORL-RAT LD50: > 5 G/KG | 3. | | |
| SKN-RBT LD50: > 3.18 G/KG | 3. | | |
| PROPYLENE GLYCOL MONOMETHYL ETHER | | ROSENE | |
| SKN-RBT: 500 MG OPEN MILD | 3. | EYE-EMN: 300 PPM | 3. |
| ORL-RAT LD50: 7510 MG/KG | 3. | INH-MAN TOL0: 200 PPM:ONS | 3. |
| EYE-RBT 230 MG MILD | 3. | ORL-RAT LD50: 2000 MG/KG | 3. |
| INH-RAT LCLO: 7000 PPM | 3. | SKN-RBT: 870 MG MILD | 3. |
| MEDIUM ALIPHATIC SOLVENT NAPHTHA | | | |
| NO TOXICITY DATA AVAILABLE | | | |

SECTION VII - REACTIVITY DATA

Stability: X --Stable --Unstable

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

Incompatibility (Materials to Avoid):

STRONG ALKALIS, ACIDS, AMINES, HYDROGEN PEROXIDE, STRONG OXIDIZER SUCH AS CHLORINE BLEACH, ALUMINUM, TIN, AND OTHER REACTIVE METALS

Hazardous Decomposition Products:

HYDROCHLORIC ACID, PHOSGENE GAS, HYDROGEN CHLORIDE, CHLORINE GAS, OXIDES OF CARBON AND HYDROGEN SULFIDE.

Hazardous Polymerization:

--May Occur X --Will Not Occur

Conditions to Avoid:

N/A

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SECTION VII - REACTIVITY DATA (Continued)

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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, ACCORD WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE CLOTHING.

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.

Neutralizing Agent:

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

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

Respiratory Protection:

A NIOSH/MSHA APPROVED RESPIRATOR IN PROPERLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ADULT T1V OR OSHA PEL.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

Eye Protection:

CHEMICAL GOGGLES SHOULD BE WORN.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Outdoors--> Heated--> Refrigerated-->
Minimum Temperature: 15°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 | CAS Number | Upper Limit |
|--------------------|------------|-------------|
| METHYLENE CHLORIDE | 75-09-2 | 30 |
| TOLUENE | 108-88-3 | 20 |

These ingredients listed above are subject to the reporting requirements of 111 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 AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1990. 2. OSHA PEL.
 2. GAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, EIGHTH EDITION, RICHARD J. LEWIS, SR. 4. VENDOR'S MSDS. 5. IARC
- 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,
CCO: CLEVELAND OPEN CUP, DMCC: 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, ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL
INDUSTRY HYGIENISTS, PEL: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE
LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD, MOD: MODERATE, SEV: SEVERE,
MUT: MUTAGENIC, ASPHY: ASPHYXIANT, PNO3: PARTICULATES NOT OTHERWISE CLASSI-
FIED, SOT: STANDARD DRAIZE TEST, CRL: CRAL, EMN: HUMAN, IHL: INHALATION

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

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SECTION XII - REFERENCES (Continued)

associated with such unrecommended use, storage, or disposal of the product.
