

AEROSOL
 MATERIAL SAFETY DATA SHEET LOK-CEASE 20/20
 DATE OF ISSUE: 10/01/2004
 SUPERCEDES: 07/21/1999

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms: Trade Name & Synonyms:
 N/A LOK-CEASE 20/20 AE
 ROSOL

Chemical Family: Formula Mixture:
 PETROLEUM/CARBONATE MIXTURE X

Manufacturer's Name:
 CERTIFIED LABS, DIV. OF NCH CORP.

Address: BOX 152170
 IRVING, TEXAS 75015
 Prepared By: L Boynton/Chemist
 Product Code Number: 5588
 Emergency Phone Number: 800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients): MINERAL OIL
 Hazard: IRRITANT
 TLV: 5 MG/M3 \$1
 PEL: 5 MG/M3 \$2
 STEL: 10MG/M3 \$1
 CAS#: 8042-47-5

Chemical Name (Ingredients): ZINC OXIDE
 Hazard: IRRITANT
 TLV: 2 MG/M3 1
 PEL: 5 MG/M3 2
 STEL: 10MG/M3 1
 CAS#: 1314-13-2

Chemical Name (Ingredients): PROPANE

Hazard: ASPHX/FLAM
 TLV: 1000 PPM*1
 PEL: 1000 PPM 2
 STEL: N/E
 CAS#: 74-98-6

Chemical Name (Ingredients): N-BUTANE
 Hazard: ASPHX/FLAM
 TLV: 1000 PPM*1
 PEL: N/E 2.
 STEL: N/E
 CAS#: 106-97-8

Chemical Name (Ingredients): CALCIUM CARBONATE
 Hazard: IRRITANT
 TLV: 10 MG/M3 1
 PEL: 5 MG/M3 2
 STEL: N/E
 CAS#: 1317-65-3

Chemical Name (Ingredients): CRYSTALLINE SILICA (QUARTZ)
 Hazard: CARCINOGEN
 TLV: .05MG/M3 1
 PEL: 3.6MG/M3 2
 STEL: N/E
 CAS#: 14808-60-7

Chemical Name (Ingredients): CYCLOHEXANE
 Hazard: IRRITANT
 TLV: 100 PPM 1
 PEL: 300 PPM 2
 STEL: N/E
 CAS#: 110-82-7

Chemical Name (Ingredients): N-HEPTANE
 Hazard: FLAM/IRR
 TLV: 400 PPM 1
 PEL: 500 PPM 2
 STEL: 500 PPM 1
 CAS#: 142-82-5

Chemical Name (Ingredients): N-HEXANE
 Hazard: FLAM/IRR
 TLV: 50 PPM 1
 PEL: 500 PPM 2
 STEL: N/E
 CAS#: 110-54-3



Chemical Name (Ingredients): \$ OIL MIST VALUES
 Hazard:
 TLV:
 PEL:
 STEL:
 CAS#:
 Chemical Name (Ingredients): * ALIPHATIC HYDROCARBON GAS VALUES
 Hazard:
 TLV:
 PEL:
 STEL:
 CAS#:

SECTION III - PHYSICAL DATA

Boiling Point (F): 152°
 Specific Gravity (H2O=1): 1.02
 Vapor Pressure (MM HG): 51.7
 Color: WHITE TO OFF-WHITE
 Vapor Density (Air=1): 3.0
 Odor: SWEET
 PH @ 100%: N/A
 Clarity: OPAQUE
 Volatile by Volume: 52
 Evaporation Rate (BT A/C=1): 2.51
 H2O Solubility: NEGLIGIBLE
 Viscosity: VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: 74° F / SETPLASH
 Flammable Limits: N-HEXANE/PROPANE LEL: 1.1% UEL: 9.5%
 Extinguishing Media:
 Foam: X Alcohol Foam: X CO2: X
 Dry Chemical: X Water Spray: X Other:

Special Fire Fighting Procedures:
 FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN

BASED ON THE NATURE OF THE SURROUNDING FIRE. 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. FLAME EXTENSION IS >30 INCHES, BURNEBACK IS 4-6 INCHES.
 Aerosol Level (NFPA 30B): 3
 NFPA 704 Hazard Rating:
 (0=Insignificant 1-Slight 2-Moderate 3-High 4-Extreme)
 Health: 1 Flammability: 3 Instability: 0 Special:

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
 NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.
 Effects of Overexposure:
 -Acute(Short Term Exposure)
 EYE CONTACT: CAUSES IRRITATION SEEN AS REDNESS, STINGING, TEARING, A BURNING SENSATION, AND BLURRED VISION. MAY CAUSE DAMAGE TO EYE TISSUE.
 SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING, REDNESS, SWELLING, AND A BURNING SENSATION. MAY CAUSE ALLERGIC SKIN REACTION SEEN AS DELAYED SKIN RASH WHICH MAY BE FOLLOWED BY BLISTERING, SCALDING, AND OTHER SKIN EFFECTS. PROLONGED OR REPEATED CONTACT AS FROM CLOTHING WET WITH MATERIAL MAY CAUSE DRYING, DEFLATTING, CRACKING, AND CHAPPING OF THE SKIN. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS.
 INHALATION: MAY CAUSE A BURNING SENSATION OF THE NOSE, MOUTH, AND THROAT, DIFFICULTY BREATHING, AND RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. AT LOW VAPOR CONCENTRATIONS, NO HARMFUL EFFECTS ARE EXPECTED. AT HIGH VAPOR CONCENTRATIONS, INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONCIOUSNESS, POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION, AND MAY BE FATAL. OVEREXPOSURE MAY PRODUCE SYMPTOMS OF METAL FUME FEVER OR "ZINC SHAKES" WHICH INCLUDE CHILLS, FEVER, MUSCULAR PAIN, NAUSEA, AND VOMITING.
 INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE CRAMPS, NAUSEA, VOMITING, AND DIARRHEA. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SIMILAR TO INHALATION.
 -Chronic (Long Term Exposure)
 ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO HYDROCARBON

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 RATE AS WELL AS A BLuish DISCOLORATION OF THE SKIN. CHRONIC SKIN CONTACT MAY PROMOTE DERMATITIS AND OIL ACNE. MAY CAUSE SKIN SENSITIZATION IN SOME INDIVIDUALS.

INHALATION OF CRYSTALLINE SILICA CAN CAUSE A PROGRESSIVE LUNG DISEASE KNOWN AS SILICOSIS, A FIBROSIS (SCARRING) OF THE LUNGS KNOWN TO BE EXACERBATED BY SMOKING. STUDIES INDICATE THAT PERSONS DIAGNOSED WITH SILICOSIS HAVE AN INCREASED RISK OF LUNG CANCER WHICH MAY BE FATAL. SOME STUDIES SHOW EXCESS NUMBERS OF CASES OF SCLERODERMA AND OTHER CONNECTIVE TISSUE DISORDERS, AN INCREASED INCIDENCE OF KIDNEY DISEASE AND ENDSTAGE RENAL DISEASE, AND AN INCREASED RISK OF TUBERCULOSIS. SCLERODERMA IS AN AUTOIMMUNE DISORDER WHICH BECOMES MORE LIKELY WITH INTERNAL ORGAN SCARRING, LIKE THAT WHICH OCCURS IN SILICOSIS. SYMPTOMS OF SCLERODERMA INCLUDE THICKENING AND STIFFNESS OF THE SKIN, PARTICULARLY IN THE FINGERS, SHORTNESS OF BREATH, DIFFICULTY SWALLOWING, AND JOINT PROBLEMS.

CHRONIC INHALATION OF SOLVENTS LIKE N-HEXANE HAVE CAUSED HEARTBEAT IRREGULARITY, HEARTBEAT INCREASE, AND PERMANENT CENTRAL AND PERIPHERAL NERVOUS SYSTEM DAMAGE, RESULTING IN DECREASED LEARNING ABILITY, LOSS OF MEMORY, PERSONALITY CHANGES, AND DISTURBANCES IN GAIT. A CONDITION KNOWN AS "PAINTER'S SYNDROME" CAN OCCUR CAUSING A LOSS OF SENSATION IN THE ARMS AND HANDS (PERIPHERAL NEUROPATHY). PROLONGED OR REPEATED EXPOSURE MAY CAUSE CARDIAC SENSITIZATION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS; PRE-EXISTING CARDIOVASCULAR, NEUROLOGICAL, AND REPRODUCTIVE CONDITIONS.

TARGET ORGANS: BLOOD-FORMING ORGANS, CENTRAL AND PERIPHERAL NERVOUS SYSTEMS, HEART, LIVER, LUNGS, AND THE MALE REPRODUCTIVE SYSTEM.

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

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:

WIPE AWAY MATERIAL WITH A CLOTH WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS. CLEAN CLOTHING AND SHOES.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

-Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: Yes NTP: Yes OSHA: No
ACGIH: Yes OTHER: Yes

VOC CONTENT: 34.9% BY WEIGHT; 52.4% BY VOLUME; 312.5 G/L

MINERAL OIL

ORL-RAT TDLO: 92 G/KG/92D-C 4.
ORL-RAT LD50: > 5000 MG/KG 3.
SKN-RBT LD50: > 2000 MG/KG 3.
EYE-RBT SDT: NON-IRRITATING 3.
SKN-RBT SDT: NON-IRRITATING 3.

BUEHLER GUINEA PIG SENSITIZATION TEST: NON-SENSITIZING 3.

SKN-RBT SUB-CHRONIC: 28-DAY NON-IRRITATING 3.

SKN-MSE CHRONIC: 104-WEEK NO SKIN TUMORS AT SITE OF APPLICATION 3.

MODIFIED AMES ASSAY (SALMONELLA TYPHIMURIUM): NEGATIVE 3.

IN-VITRO MSE LYMPHOMA ASSAY NEGATIVE TO NO TOXICITY 3.

LIFETIME MOUSE SKIN PAINTING STUDIES INDICATED THAT THIS PRODUCT IS NOT MUTAGENIC OR CARCINOGENIC. 3.

MINERAL OIL MISTS DERIVED FROM HIGHLY REFINED OILS ARE REPORTED TO HAVE LOW ACUTE AND SUB-ACUTE TOXICITIES IN ANIMALS. EFFECTS FROM SINGLE AND SHORT-TERM REPEATED EXPOSURES TO HIGH CONCENTRATIONS WE ALL ABOVE APPLICABLE WORKPLACE EXPOSURE LEVELS INCLUDE LONG 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 TWENTY YEARS) NO CARCINOGENIC EFFECTS HAVE BEEN REPORTED IN ANY ANIMAL

SPECIES TESTED. 3.

ZINC OXIDE
 ORL-RAT LD50: >8437 MG/KG 4.
 ORL-HMN LD10: 500 MG/KG 4.
 IHL-HMN TCL0: 600 MG/M3 4.
 SKN-RBT SDT: 500 MG/24H MILD 4.
 EYE-RBT SDT: 500 MG/24H MILD 4.

PROPANE
 IHL-LC50 >40% BY VOLUME 3.

N-BUTANE
 IHL-RAT LC50: 658 G/M3/4H 4.

HUMAN VOLUNTEERS EXPOSED REPEATEDLY TO GASES OF SIMILAR HYDROCARBON MIXTURES RANGING FROM 250 TO 1000 PPM EXHIBITED NO CARDIAC OR PULMONARY FUNCTION ABNORMALITIES. 3.

CALCIUM CARBONATE

IHL-RAT TCL0: 84 MG/M3/4H/40W-I 4.
 MILD TO MODERATE EYE IRRITANT 3.
 MILD TO MODERATE SKIN IRRITANT 3.
 ORL-RAT LD50: 6450 MG/KG 3.

CRYSTALLINE SILICA (QUARTZ)

IHL-HMN TCL0: 300 UG/M3/10Y-I; LIVER 4.
 IHL-HMN TCL0: 16 MPPE/8H/17.9Y-I FIBROSIS OF THE LUNG 4.
 IHL-RAT TCL0: 80 MG/M3/26W-I FIBROSIS OF THE LUNG 4.

TUMORIGENICITY

IHL-RAT TCL0: 50 MG/M3/6H/71W-I TUMORS 4.

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS CONCLUDED THAT "CRYSTALLINE SILICA INHALED IN THE FORM OF QUARTZ OR CRISTOBALITE FROM OCCUPATIONAL SOURCES IS CARCINOGENIC TO HUMANS (GROUP 1)". IT ALSO NOTED THAT CARCINOGENICITY WAS NOT DETECTED IN ALL INDUSTRIAL CIRCUMSTANCE STUDIES, AND MAY BE DEPENDENT ON EXTERNAL FACTORS AFFECTING ITS BIOLOGICAL ACTIVITY OR DISTRIBUTION OF ITS POLYMORPHS.

NTP: KNOWN HUMAN CARCINOGEN

ACGIH A2: SUSPECTED HUMAN CARCINOGEN

CYCLOHEXANE

ORL-RAT LD50: 12705 MG/KG 4.
 SKN-RBT LD: >180 GM/KG 4.
 SKN-RBT SDT: 1548 MG/2D (INTERMITTENT) 4.

IHL-RAT TCL0: 300 PPM/6H/2W-I 4.

N-HEPTANE
 IHL-RAT LC50: 103 G/M3/4H 4.
 ORL-RAT TD10: 60 G/KG/3W-1 4.

N-HEXANE
 ORL-RAT LD50: 25 GM/KG 4.
 IHL-HMN TCL0: 190 PPM/8W 4.
 EYE-RBT SDT: 10 MG MILD 4.

THIS MATERIAL MAY ADVERSELY AFFECT THE MALE REPRODUCTIVE SYSTEM (DECREASED SPERM COUNTS AND DEGENERATIVE CHANGES IN THE TESTES) BASED ON TESTING IN LABORATORY ANIMALS. 3.

SECTION VII - REACTIVITY DATA

Stability: Stable: X Unstable:

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

Incompatibility (Materials to Avoid):
 STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; ACIDS, CHLORINATED RUBBER, AND HEATED WAGNESIUM.

Hazardous Decomposition Products:

OXIDES OF ALUMINUM AND CARBON; SILICA AND ZINC FUMES.

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:
 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 SPILLS MAY BE SLIPPERY.

Waste Disposal Method(s):
 DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULA

TIONS. 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:
N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF VAPORS OR MISTS. LOCAL VENTILATION IS PREFERRED, 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 (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEMASK 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. 87-116 OR ANSI Z88.2-1992.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAZARDOUS WASTE HANDLING, 29 CFR 1910.138.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF APPLICATION PRESENTS THE LIKELIHOOD OF EYE CONTACT. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING. REMOVE OIL SOAKED CLOTHING AND SHOES. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

SECTION X - STORAGE AND HANDLING INFORMATION

ON

Storage Temperature: Indoors: X Outdoors: X
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	CAS Number	Upper % Limit
ZINC COMPOUNDS	N/A	10
CYCLOHEXANE	110-82-7	5
N-HEXANE	110-54-3	15

Those Ingredients listed above are subject to the reporting requirements 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, 2004.
 2. OSHA PEL.
 3. VENDOR'S MSDS.
 4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2004.
- ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

-----IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUST

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IBLE, 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 CLOSED CUP, 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 INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MTAGENIC, ASPHYX:ASPHYXIANT, PMS:PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SPT:STANDARD DRAIZE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN

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