

NORKOOL CONCENTRATE SLH 224C

MSDS Number

BRBVT

National Stock Number

6850-00F028334

Product Name

NORKOOL CONCENTRATE SLH 224C

Manufacturer

UNION CARBIDE CHEM AND PLASTICS CO INC

Product Identification

Product ID:NORKOOL CONCENTRATE SLH 224C

MSDS Date:06/06/1991

FSC:6850

NIIN:00F028334

MSDS Number: BRBVT

Responsible Party

UNION CARBIDE CHEM & PLASTICS CO INC

39 OLD RIDGEBURY RD

DANBURY , CT 06817-0001

US

Emergency Phone: 203-794-6753

Info Phone: 800-822-4357

Cage: 0TAZ2

Contractor

UNION CARBIDE CORPORATION

DANBURY, CT 06817-0001

US

1-800-568-4000 / 732-563-5522

Cage: 0TAZ2

Ingredients

ETHYLENE GLYCOL, GLYCOL

CAS: 107-21-1

RTECS: KW2975000

Fraction By Weight: 90-95%

ACGIH TLV: C 127 MG/CUM

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

WATER

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 2-5%

POTASSIUM PHOSPHATE, DIBASIC *93-1*

CAS: 7758-11-4

Fraction By Weight: 1-3%

POTASSIUM HYDROXIDE

CAS: 1310-58-3

RTECS: TT2100000

Fraction By Weight: 1-2%

OSHA PEL2 MG/CUM (CEILING)

ACGIH TLV: 2 MG/CUM (CEILING)

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

Hazards

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INGESTION: ABDOMINAL DISCOMFORT/PAIN, NAUSEA, VOMITING, DIZZINESS, DROWSINESS, BLURRED VISION, LUMBAR PAIN, CNS EFFECTS & WEAKNESS OF FACIAL MUSCLES. INHALATION: NOSE & THROAT IRRITATION, HEADACHE, NA USEA, VOMITING, HEADACHE & DIZZINESS. SKIN: IRRITATION, DISCOMFORT & REDNESS. EYES: IRRITATION, STINGING & REDNESS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INGESTION: MALAISE, OLIGURIA, UREMIA, IRREGULAR EYE MOVEMENTS, CONVULSIONS, COMA, CARDIAC FAILURE & PULMONARY EDEMA, KIDNEY DAMAGE & MAY BE FATAL. INHALATION: CENTRAL NERVOUS SYSTEM EFFECTS, DIZZINESS , & NYSTAGMUS. SKIN: SWELLING, SENSITIZATION W/DEVELOPMENT OF ALLERGIC CONTACT DERMATITIS. EYES: EXCESS BLINKING.

Medical Cond Aggravated by Exposure:KIDNEY DISEASE

First Aid

First Aid:INGESTION: IF CONSCIOUS, GIVE 2 GLASSES OF WATER & INDUCE VOMITING. GIVE MODERATE VOLUMES OF ETHYLENE GLYCOL, THEN GIVE 3-4 OUNCES OF HARD LIQUID SUCH AS WHISKEY. SKIN/EYES: FLUSH W/WATER FOR SEVERAL MINS. INHALATION: REMOVE TO FRESH AIR. NOTE TO PHYSICIAN: ETHANOL IS ANTIDOTAL, ITS EARLY ADMINISTRATION MAY BLOCK FORMATION OF NEPHROTOXIC METABOLITES OF ETHYLENE GLYCOL IN THE LIVER. (SEE SUPP.)

Fire Fighting

Flash Point Method:PMCC

Flash Point:260F, 126.7C

Lower Limits:3.2%

Upper Limits:15.3%

Extinguishing Media:ALCOHOL-TYPE, ALL PURPOSE-TYPE FOAMS, WATER SPRAY, CO2, DRY CHEMICAL

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:DURING A FIRE, AMMONIA & NITROGEN-CONTAINING COMPOUNDS MAY BE PRODUCED.

Accidental Release

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. FLUSH W/PLENTY OF WATER. COLLECT FOR DISPOSAL.

Handling

Handling and Storage Precautions:KEEP CONTAINER CLOSED. USE W/ADEQUATE VENTILATION. FOR INDUSTRY USE ONLY. DON'T SWALLOW. AVOID CONTACT W/EYES, SKIN & CLOTHING. AVOID BREATHING VAPOR.

Other Precautions:SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE & PRESSURE OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS WITHO UT PRESENCE OF OBVIOUS IGNITION SOURCES.

Exposure Controls

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR W/ORGANIC VAPOR CARTRIDGE & DUST/MIST PRE-FILTER WHEN EXPOSURE LIMITS ARE EXCEEDED

Ventilation:GENERAL (MECHANICAL) ROOM: ADEQUATE. LOCAL EXHAUST IS NEEDED AT POINTS WHERE VAPOR IS IN WORKPLACE

Protective Gloves:NATURAL RUBBER, NITRILE, NEOPRENE, PVC

Eye Protection:MONOGOGGLES OR FACESHIELD

Other Protective Equipment:EYE BATH OR SAFETY SHOWER

Work Hygienic Practices:REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NOTE TO PHYSICIAN (CONT'D): ETHANOL SHOULD BE GIVEN INTRAVENOUSLY, AS A 5% SOLUTION IN SODIUM BICARBONATE, AT A RATE OF ABOUT 10ML ETHANOL PER HOUR. A DESIRED THERAPEUTIC LEVEL OF ETHANOL IN BLOOD IS 100MG/DL. HEMODIALYSIS MAY BE REQUIRED.4-METHYLPYRAZOLE, A POTENT INHIBITOR OF ALCOHOL DEHYDROGENASE HAS BEEN USED.

Chemical Properties

Boiling Pt:B.P. Text:178C, 353F

Melt/Freeze Pt:M.P/F.P Text:<-59C, -75F

Vapor Pres:0.014

Vapor Density:2.22

Spec Gravity:1.13164

Evaporation Rate & Reference:(BU AC = 1): 0

Solubility in Water:COMPLETE

Appearance and Odor:TRANSPARENT GREENISH-BLUE LIQUID W/MILD ODOR

Percent Volatiles by Volume:95/WT

Stability

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS & BASES AT ELEVATED TEMPERATURES, STRONG OXIDIZING AGENTS & MATERIAL REACTIVE W/HYDROXYL COMPOUNDS

Hazardous Decomposition Products:CO, CO2, AMMONIA, & NITROGEN-CONTAINING COMPOUNDS

Disposal

Waste Disposal Methods:INCINERATE IN FURNACE WHERE PERMITTED UNDER FEDERAL, STATE, & LOCAL REGULATIONS. AT VERY LOW CONCENTRATION IN WATER, ETHYLENE GLYCOL IS READILY BIODEGRADABLE IN BIOLOGICAL WASTEWATER TREATMENT PLANT.

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