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Z R C CHEMICAL PRODUCTS CO -- ZRC COLD GALVANIZING COMPOUND (AEROSOL) -- 8030-01-015-1550

========== Product Identification ==========

Product ID:ZRC COLD GALVANIZING COMPOUND (AEROSOL)
MSDS Date:07/29/1999
FSC:8030
NIIN:01-015-1550
Status Code:A
MSDS Number: CLNVR
=== Responsible Party ===
Company Name:Z R C CHEMICAL PRODUCTS CO
Address:21 NEWPORT AVE
City:NORTH QUINCY
State:MA
ZIP:02171-2635
Country:US
E
mergency Phone Num:1-800-424-9300
Preparer's Name:ERNEST CARTER
Chemtrec Ind/Phone:(800)424-9300
CAGE:07957
=== Contractor Identification ===
Company Name:Z R C CHEMICAL PRODUCTS CO
Address:21 NEWPORT AVE
Box:City:NORTH QUINCY
State:MA
ZIP:02171-2635
Country:US
CAGE:07957

========== Composition/Information on Ingredients ==========

Ingred Name:ZINC
CAS:7440-66-6
RTECS #:ZG8600000
= Wt:44.
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ACETONE
CAS:67-64-1
RTECS #:AL3150000
= Wt:

20.
OSHA PEL:2400 MG/M3;1000 PPM
ACGIH TLV:1780 MG/M3;750 PPM
ACGIH STEL:2380 MG/M3;1000 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:PROPANE
CAS:74-98-6
RTECS #:TX2275000
= Wt:10.
OSHA PEL:1800 MG/M3;1000 PPM

Ingred Name:PETROLEUM DISTILLATES
CAS:8052-41-3
Code:F
RTECS #:WJ8925000
= Wt:7.
OSHA PEL:2900 MG/M3;500 PPM
ACGIH TLV:525 MG/M3;100 PPM

Ingred Name:METHYL ETHYL KETONE
CAS:78-93-3
RTECS #:EL6475000
= Wt:6.
OSHA PEL:590 MG/M3;200 PPM
ACGIH TLV:590 MG/M3;200 PPM
ACGIH STEL:8
85 MG/M3;300 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:N-BUTANE
CAS:106-97-8
RTECS #:EJ4200000
= Wt:5.
ACGIH TLV:1900 MG/M3;800 PPM

Ingred Name:ZINC OXIDE
CAS:1314-13-2
Code:F
RTECS #:ZH4810000
= Wt:1.
OSHA PEL:15 MG/M3

========== Hazards Identification ==========

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:PROPANE IS AN ASPHYXIANT. SOLVENTS
CONTAINED IN THIS MIXTURE ARE CENTRAL NERVOUS SYSTEM
DEPRE

SSANTS.SYMPTOMS OF OVEREXPOSURE INCLUDE DROWSINESS, DIZZINESS, HEADACHE, SLURRED SPEECH, NOSE, THROAT AND L UNG IRRITATION MAY OCCUR FROM INHALATION. SKIN CONTACT MAY CAUSE DEFATTING AND DERMATITIS. EYE CONTACT WITH THE LIQUID CAUSES TEARS, BURNING, IRRITATION. INGESTION WILL CAUSE POISIONING AND MAY BE FAT AL. AVOID ASPIRATION IF INGESTED. DO NOT INDUCE VOMITING.

Effects of Overexposure:REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANEN

T DAMAGE TO THE BRAIN AND

CENTRAL NERVOUS SYSTEM. NOTE: MINOR EMBRYOTOXIC/FETOTOXIC EFFECTS HAVE BEEN REPORTED IN O NE UNCONFIRMED STUDY OF METHYL KETONE AS BEING OBSERVED IN LABORATORY RATS EXPOSED TO OVER 1000 PPM OF THE PURE SOLVENT FOR MOST OF THE GESTATION PERIOD BY THE INHALATION ROUTE (5X OSHA PEL).

Medical Cond Aggravated by Exposure:RESPIRATORY CONDITIONS, DERMATITIS AND OTHER SKIN AFFLICTIONS, CONDITIONS OF THE NERVOUS SYSTEM.

========== First Aid Measures ==========

First Aid:INHALATION: REMOVE TO FRESH AIR. KEEP WARM AND QUIET. GIVE ARTIFICIAL RESPIRATION IF REQUIRED. GET MEDICAL ASSISTANCE.EYES: WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. T AKE TO PHYSICIAN. SKIN: WASH CONTACT AREA PROMPTLY WITH SOAP AND WATER. CONSULT PHYSICIAN. INGESTION: DO NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE. CONTACT A PHYSICIAN.

========== Fire Fighting Measures ==========
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Flash Point Method:TOC
Flash Point:=-6.5C, 20.F
Lower Limits:1.1%
Upper Limits:12.8%
Extinguishing Media:APPROVED CLASS B FIRE EXTINGUISHER, FOAM OR DRY CHEMICAL.
Fire Fighting Procedures:DO NOT USE WATER IN ANY FORM. WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT, BUT CARE SHOULD BE TAKEN TO PREVENT WATER ACCESS TO WET PAINT AND SPRAY RESIDUES.
Unusual Fire/Explosion Hazard:KEEP CO

NTAINERS CLOSED TIGHTLY. ISOLATE
FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. ZINC PRESENT IN A FINELY DIVIDED FORM IS HAZ ARDOUS WHEN ATOMIZED IN AIR AND, IF SPARKED, EXPLOSION IS POSSIBLE. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAU

========== Accidental Release Measures ==========

Spill Release Procedures:FOR MASSIVE SPILLS, EVACUATE THE AREA. FOR ALL SPILLS, ELIMINATE I
GNITION SOURCES. DIKE AND CONTAIN SPILLS WITH
DRY, INERT MATERIALS. ELMIINATE ALL SOURCES OF MOISTURE AND DO NOT USE WATER IN CLEAN-UP OPERATIONS. RECOVER AS MUCH OF THE FREE LIQUID AS POSSIBLE FOR DISPOSAL AND USE AN ABSORBANT TO PICK UP RESIDUE. AVOID DISCHARGING PAINT TO SEWER. USE NON-SPARKING TOOLS ONLY.

========== Handling and Storage ==========

Handling and Storage Precautions:USE ONLY NON-SPARKING TOOLS. AREAS OF USE SHOULD HAVE GOOD VE
NTILATION AND ALL SOURCES OF OPEN FLAME AND
HIGH HEAT SHOULD BE EXCLUDED. STORE ONLY IN CANS WITH IDENTIFYING LABELS THAT INDICATE THE FLAM MABILITY OF THE MATERIAL.
Other Precautions:ANY DEFORMED CANS SHOULD NOT BE MOVED, OPEN OR PUNCTURED.KEEP AWAY FROM CHILDREN. EMPTY CONTAINER MAY CONTAIN EXTREMELY FLAMMABLE RESIDUES AND EXPLODE IF HEATED.

========== Exposure Controls/Personal Protection ==========

Respiratory Protection:IN OUTDOOR OR OPEN AREAS, WEAR ONLY PROPERLY FITTED, NIOSH/MSHA APPROVED RESPIRATORS CAPABLE OF FILETRING DUST PARTICULATES DURING AND AFTER APPLICATION UNLESS AIR MONITORING DEMONSTRATES VAPOR/MIST L EVELS ARE BELOW ACCEPTABLE LIMITS.
Ventilation:WORK PLACE AREAS REQUIRE EXHAUST VENTILATION
Protective Gloves:NEOPRENE GLOVES AND APRONS SHOULD BE USED
Eye Protection:SAFETY GOGGLES WITH UNPERFORATED SIDE SHIELDS OR FACE SHIELD
Other Protective Equipment:WEAR NEOPRENE APRON OVER WELL FITTING CLOTHES. LOOSE FITTING CLOTHES

SHOULD NOT BE WORN. FOTWEAR: WEAR CHEMICAL RESISTANT BOOTS WITH STEEL TOES.
Work Hygienic Practices:NEOPRENE APRON OVER WELL FITTING CLOTHES. LOOSE FITTING CLOTHES SHOULD NOT BE WORN.
Supplemental Safety and Health
WORK AREAS REQUIRE EXHAUST VENTILATION IAW OSHA 29 CFR 1910.107 TO MAINTAIN VAPOR LEVELS BELOW TLV. USE APPROVED HIGH EFFICIENCY RESPIRATOR OF THE FULL FACE CANISTER TYPE (FOR LIMITED CONCENTRATIONS), AIR SUPPLIED TYPE OF SELF-CONTAINED RESPIRATORS (FOR EXTEN
DED EXPOSURES INVOLVING HIGH VAPOR CONCENTRATIONS).

========== Physical/Chemical Properties ==========

Boiling Pt:=202.2C, 396.F
Vapor Pres:50@21 C
Vapor Density:HEAVIER
Spec Gravity:1.20@25 C
Evaporation Rate & Reference:FASTER THAN ETHER
Appearance and Odor:GREY WITH ODOR OF ALIPHATIC AND AROMATIC HYDROCARBONS
Percent Volatiles by Volume:48

========== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
IT CAN REACT V
IOLENTLY WITH STRONG OXIDIZING AGENTS SUCH AS CHLORINE AND OXYGEN, AS WELL AS WATEWR, WEAK ACIDS AND CONCENTRATED ACIDS.
Stability Condition to Avoid:STORE IN DRY AREAS AWAY FROM OXIDIZING AGENTS (CHLORINE, OXYGEN), ALL ACIDS, ALKALIES, AND WATER. AVOID DUSTING AND ACCUMULATIONS OF SPRAY RESIDUES.
Hazardous Decomposition Products:WATER AND ALKALI CONTACT MAY PRODUCE HYDROGEN GAS ACCOMPANIED WITH ADDITIONAL OF EXPLOSION AND FIRE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

========== Disposal Considerations ==========

Waste Disposal Methods:DISPOSE OF THE ABSORBED MATERIAL OR THE FREE WASTE LIQUID IN DRY CONTAINERS ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

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