

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

Em

ergency 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:2

0.
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:88
5 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 ASPHYXIAN. SOLVENTS
CONTAINED IN THIS MIXTURE ARE CENTRAL NERVOUS SYSTEM
DEPRES

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

Effects of Overexposure:REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT DAMAGE TO THE BRAIN AND

CENTRAL NERVOUS SYSTEM. NOTE: MINOR EMBRYOTOXIC/FETOTOXIC EFFECTS HAVE BEEN REPORTED IN ONE 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. TAKE 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 CON

TAINERS 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 IG
NITION 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 VEN
TILATION 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 LEVELS 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. FOOTWEAR: 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 EXTENDED 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 VIOLENTLY WITH STRONG OXIDIZING AGENTS SUCH AS CHLORINE
AND OXYGEN, AS WELL AS WATER, 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 RISK 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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