

ANACHEMIA CHEMICALS INC -- FORMALDEHYDE, AC-4553 -- 6810-01-017-3542

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Product Identification
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Product ID: FORMALDEHYDE, AC-4553

MSDS Date: 04/26/1995

FSC: 6810

NIIN: 01-017-3542

MSDS Number: CHDYJ

=== Responsible Party ===

Company Name: ANACHEMIA CHEMICALS INC

Address: 3 LINCOLN BLVD

City: ROUSES PARK

State: NY

ZIP: 12979

Country: US

Info Phone Num: 514-489-5711

Emergency Phone Num: 518-297-4444; 80

0-424-9300 (CHEMTREC)

CAGE: 4A444

=== Contractor Identification ===

Company Name: ANACHEMIA CHEMICALS INC

Address: 3 LINCOLN BLVD

Box: City: ROUSES POINT

State: NY

ZIP: 12979

Country: US

Phone: 518-297-4444

CAGE: 4A444

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Composition/Information on Ingredients
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Ingred Name: FORMALDEHYDE (SARA 302/313) (CERCLA). LEL: 7%; UEL: 73% (FOR FORMALDEHYDE GAS). LD50: (ORAL, RAT) 100 MG/KG.

CAS: 50-00-0

RTECS #: LP8925000

Fraction by Wt: 30-40%

OSHA PEL: N/K

ACGIH TLV: 0.3 PPM, C

EPA Rpt Q

ty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:METHANOL (SARA 313) (CERCLA). LD50: (ORAL, RAT) 5628
MG/KG.

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: 5-15%

OSHA PEL:200 PPM, S

ACGIH TLV:200 PPM; 250 STEL, S

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: BALANCE

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:EFTS OF OVEREXP: NOSE, THROAT, LUNGS & MUC MEMBS. BRONCH,
BRONCHOPNEUM, PULM EDEMA & CHEM PNEUMIT MAY OCCUR. (ING 5)

RTECS #:

9999999ZZ

Ingred Name:ING 4: PRLNGD EXPOS MAY RSLT IN MORE SEV IRRIT & TISS DMG.
METHANOL CAN CAUSE CNS DEPRESS (W/HDCH, DIZZ, NAUS, (ING 6)

RTECS #:9999999ZZ

Ingred Name:ING 5: VOMIT, DROW & INCOORD), COUGH, CHEST PAIN & DYSPNEA.
CAN AFFECT OPTIC NERVE RSLTG IN BLINDNESS. INGEST: (ING 7)

RTECS #:9999999ZZ

Ingred Name:ING 6: HIGHLY TOX. VAPS, MISTS & LIQ EXTREMELY IRRIT TO
MOUTH, THROAT & STOM. SWALLOWING LIQ INFLAMES TISS W/SEV (ING 8)

RTECS #:9999999ZZ

Ingred Name:ING 7: ABDOM

PAIN, NAUS, VOMIT, HEMATURIA, PROTEINURIA,

ANURIA, ACIDOSIS & POSS UNCON. METHANOL CAN AFFECT OPTIC (ING 9)

RTECS #:9999999ZZ

Ingred Name:ING 8:NERVE RSLTG IN BLINDNESS. CHRONIC:POSS REPRO
DISORDERS FROM PRLNGD EXPOS (EMBRYOTOX). MUTAGEN. PASSES THRU(ING
10)

RTECS #:9999999ZZ

Ingred Name:ING 9:PLACENTAL BARRIER IN ANIMAL. MAY CAUSE SENSIT BY
INHAL(ASTHMA) & SKIN CNTCT (DERM). CAN CAUSE CNS DEPRESS.(ING 11)

RTECS #:9999999ZZ

Ingred Name:ING 10: MAY CAUSE DMG TO CNS, RESP SYS, L

UNGS, EYES, SKIN,
GI TRACT, LIVER, SPLEEN & KIDNEYS.
RTECS #:9999999ZZ

Inged Name:FIRST AID: OXYGEN SUPPLY IF BRTHG DFCLT. ADMIN ARTF
RESP/CPR IF BRTHG CEASES. SEEK IMMED MED ATTN. INGEST:IF (ING 13)
RTECS #:9999999ZZ

Inged Name:ING 12: CONSCIOUS, WASH OUT MOUTH W/WATER. HAVE CONSCIOUS
PERSON DRINK SEVERAL GLASSES OF WATER TO DILUTE. SEEK (ING 14)
RTECS #:9999999ZZ

Inged Name:ING 13: IMMED MED ATTN. NEVER GIVE ANYTHING BY MOUTH TO
UNCON OR CONVULSING PERSON.
RTECS #:9999999
ZZ

Inged Name:SPILL PROC: USE NON-SPKG TOOLS. WASH SPILL SITE AFTER MATL
PICK UP IS COMPLETE. DO NOT EMPTY INTO DRAINS. DO NOT(ING 16)
RTECS #:9999999ZZ

Inged Name:ING 15: TOUCH SPILLED MATL. RUNOFF TO SEWER MAY CREATE FIRE
OR EXPLOSION HAZARD.
RTECS #:9999999ZZ

Inged Name:HNDLG/STOR:DO NOT WASH DOWN DRAIN. DO NOT BREATHE
GAS/FUMES/VAP/SPRAY. IF INSUFFICIENT VENT, WEAR SUITABLE NIOSH(ING
18)
RTECS #:9999999ZZ

Inged Name:ING 17: APPRVD RESP. KEEP CNTNR TIGHTLY CLSD. MANIPU
LATE
UNDER ADEQ FUME HOOD. TAKE PRECS AGAINST ELECTROSTATIC (ING 19)
RTECS #:9999999ZZ

Inged Name:ING 18:DISCHARGES. GROUND CNTNR WHILE DISPENSING. GROUND
ALL EQUIP CONTAINING MATL. USE ONLY EXPLO PROOF EQUIP. (ING 20)
RTECS #:9999999ZZ

Inged Name:ING 19: USE NON-SPKG TOOLS. WATCH FOR ACCUM IN LOW CONFINED
AREAS. DO NOT USE PRESS TO DISPENSE.
RTECS #:9999999ZZ

Inged Name:OTHER PRECS: INCANDESCENT LIGHT. EMPTY CNTNRS MAY CNTN HAZ
RESIDUE. HNDL & OPEN CNTNR W/CARE. PROD MUST

BE (ING 22)
RTECS #:9999999ZZ

Ingred Name:ING 21: MANIPULATED BY QUALIFIED PERS. I/A/W GOOD STOR &
HNDLG PRACTS. HARMFUL TO AQUATIC LIFE AT LOW CONCS. (ING 23)
RTECS #:9999999ZZ

Ingred Name:ING 22:CAN BE DANGEROUS IF ENTERS DRINKING WATER INTAKES.
DO NOT CONTAM WATER SUPPLIES, LAKES, STREAMS, PONDS OR RIVERS.
RTECS #:9999999ZZ

Ingred Name:EYE PROT: & FULL LENGTH FACESHIELD . DO NOT WEAR CONTACT
LENSES.
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP: AS APPROP: FSHLDS, RUB SUITS &
BOOTS.
ENSURE EYEWASH & SFTY SHOWER PROXIMAL TO WORK STATION LOCATION.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:SEE INGREDIENTS

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE: MAY BE FATAL BY INGEST,
INHAL/SKIN ABSORPTION. CORR. SEV LACHRYMATOR. 100PPM IS IDLH.
TARGET ORGANS:CNS, LIVER, KIDNEYS, SPLEEN, EYES, SKI

N, LUNGS,

PANCREAS & GI, RESP, REPRO & PERIPHERAL NERVOUS SYSTEMS. EYE:VAPS
& MIST CAUSE TEARING & SEV IRRIT. LIQ CAUSES SEV BURNS. CNTCT CAN
RSLT IN CORNEAL(EFTS OF OVEREXP)

Explanation of Carcinogenicity:FORMALDEHYDE: IARC MONO, VOL 62, PG 217,
1995:GROUP 2A. NTP 7TH ANNUAL RPT ON CARCINS, 1994:ANTIC TO BE
CARCIN. (SUPDAT)

Effects of Overexposure:HLTH HAZ: DMG/BLINDNESS. SKIN:LIQ CNTCT CAUSES
DRYING, SCALES & CRACKING. PRLNGD & RPTD CNTCT CAUSES HARDENING OR
TANNI

NG EFT. MAY CAUSE ALLERGIC DERM. LIQ CAN BE ABSORBED IN TOX
AMTS THRU INTACT SKIN (MASSIVE SKIN CNTCT CAN CAUSE VISUAL
IMPAIRMENT & DEATH). INHAL:HIGHLY TOX. VAPS & MISTS EXTREMELY IRRIT
TO (ING 4)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES:IMMED FIRST AID NEEDED TO PVNT DMG. IMMED FLUSH
W/COPIOUS QTYS OF WATER FOR AT LST 20 MIN HOLDING LIDS APART TO
ENSURE FLUSHING

OF ENTIRE SURF. SEEK IMMEDIATE MED ATTENTION. SKIN:IMMEDIATE
FIRST AID NEEDED TO PREVENT DAMAGE. IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT
LEAST 20 MIN WHILE REMOVING CONTAMINATED CLOTHING & SHOES. SEEK IMMEDIATE MED
ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSE. INHALATION:REMOVE TO FRESH AIR.
ADMINISTRATIVE APPROVED (ING 12)

===== Fire Fighting Measures =====

Flash Point Method:CC
Flash Point:>122F,>50C
Lower Limits:SEE INGREDIENT 1
Upper Limits:SEE INGREDIENT 1
Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL-RESISTANT
FOAM OR WATER SPRAY.
Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE
EQUIPMENT . COOL CONTAINING VESSELS WITH FLOODING QUANTITIES OF
WATER UNTIL WELL AFTER FIRE IS OUT.
Unusual Fire/Explosion Hazard:COMBUSTIBLE LIQUID. VAPOR MAY TRAVEL CONSIDERABLE
DISTANCE TO IGNITION SOURCE & FLASH BACK; ELIMINATE ALL IGNITION SOURCES. VAPOR
FORMS EXPLOSIVE MIXTURE WITH AIR. CONTAINER EXPLOSION MAY OCCUR (SUPPLEMENTARY DATA)

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

Spill Release Procedures:WEAR NIOSH APPROVED SCBA, RUBBER BOOTS & HEAVY RUBBER
GLOVES. FULL SUIT. STAY UPWIND; KEEP OUT OF LOW AREAS. EVACUATE &
VENTILATE AREA. ELIMINATE IGNITION SOURCES. DIKE AREA WITH SAND/NATURAL BARRIER.
ABSORB ON SAND/VERMICULITE & PUT SPILL MATERIAL IN APPROPRIATE WASTE DISPOSAL.
(INGREDIENT 15)
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL PLACE AWAY FROM HEATED
AREA, SPARKS & FLAME. STORE IN WELL VENTILATED AREA AWAY FROM INCOMPATIBLE
MATERIALS. DO NOT ADD OTHER MATERIAL TO CONTAINER. (INGREDIENT 17)
Other Precautions:STORAGE TEMPERATURE DEPENDS ON METHANOL CONTENT & SHOULD BE
CONTROLLED TO AVOID PRECIPITATION OR VAPORIZATION. LOW TEMPERATURE STORAGE
RESULTS IN FORM OF PARAFORMALDEHYDE, WHILE HIGH TEMPERATURE STORAGE PRODUCES
FORMIC ACID. KEEP AWAY FROM DIRECT SUNLIGHT/STRONG (INGREDIENT 21)

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

Respiratory Protection:NIOSH APPROVED RESPIRATOR IS ADVISED IN ABS

ENCE

OF PROPER ENVIRONMENTAL CONTROLS. IF MORE THAN TLV, DO NOT BREATHE VAPOR. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

Ventilation:USE ONLY IN CHEM FUME HOOD TO KEEP AIRBORNE LEVELS BELOW REC LIMS. USE EXPLO-PROOF EQUIP. DO NOT USE IN UNVENTD SPACES.

Protective Gloves:IMPERVIOUS PVC, NITRILE/NEOPRENE GLOVES.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGS (ING 24)

Other Protective Equipment:ANSI APPRVD EYE WASH & DELUGE SHOWER .

APRON, COVERALLS &/OR OTHER RESIST PR

OT CLTHG. HAVE AVAIL & USE

(ING 25)

Work Hygienic Practices:IMMED REMOVE CONTAM CLTHG. DO NOT GET IN EYES/ON SKIN/CLTHG. WASH WELL AFTER USE. NO SMKNG/FOOD CONSUMPTION WHILE HNDLG.

Supplemental Safety and Health

SPEC GRAV: 1.08-1.0975 (H*2O=1). MP: INSOL POLYMER GRADUALLY FORMS. PH (1% SOLN/WATER): 2.8-4.0 (25C). EXPLO HAZ: UNDER FIRE CNDTNS OR WHEN HEATED. CNTCT W/OXIDIZERS MAY CAUSE FIRE &/OR EXPLO. EMITS T OXIC FUMES UNDER FIRE CNDTNS. EXPLAN OFCARCIN: OSHA REGULATED:

CFR

29 1910.1048.

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

Boiling Pt:B.P. Text:>194F,>90C

Melt/Freeze Pt:M.P/F.P Text:SUPDAT

Vapor Pres:40 @ 39C

Vapor Density:0.62-1.16

Spec Gravity:SUPDAT

pH:SUPDAT

Solubility in Water:MISCIBLE

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH STRONG FORMALDEHYDE ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

MAY REACT VIO

LENTLY W/ACIDS, OXIDIZING AGENTS, OXIDES, AMINES, BASES.

CNTCT NEHC FOR MORE INFO ON MATLS TO AVOID .

Stability Condition to Avoid:HEAT, SPARKS AND FLAME, TEMPERATURES BELOW 20C.

Hazardous Decomposition Products:NOT AVAILABLE. RXN W/HYDROCHLORIC ACID MAY FORM BIS-CHLOROMETHYL ETHER, A HUMAN CARCIN ACCORDING TO ACGIH & IARC.

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

Waste Disposal Methods:ACCORDING TO ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATI

ONS.

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