

SIGMA-ALDRICH CORPORATION -- TEST KIT,FORMALDEHYDE,PART C -- 6560-01-249-8888

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

Product ID:TEST KIT,FORMALDEHYDE,PART C

MSDS Date:10/01/1989

FSC:6560

NIIN:01-249-8888

Kit Part:Y

MSDS Number: BKMHK

=== Responsible Party ===

Company Name:SIGMA-ALDRICH CORPORATION

Address:1001 W. ST. PAUL AVE

Box:2060

City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Info Phone Num:314-771

-5765/414-273-3850

Emergency Phone Num:800-325-5832/800-231-8327

CAGE:GO059

=== Contractor Identification ===

Company Name:ALDRICH CHEMICAL CO INC

Address:1001 WEST ST PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Phone:414-273-3850

CAGE:60928

Company Name:SIGMA-ALDRICH CORPORATION

Address:1001 WEST SAINT PAUL AVE

Box:2060

City:MILWAUKEE

State:WI

ZIP:53201

Country:US

Phone:800-231-8327

CAGE:GO059

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

Ingred Name:F

FORMALDEHYDE (SARA III)
CAS:50-00-0
RTECS #:LP8925000
Fraction by Wt: 37%
Other REC Limits:NONE SPECIFIED
OSHA PEL:SEE 1910.1048
ACGIH TLV:C 0.3 PPM; A2; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)
CAS:67-56-1
RTECS #:PC1400000
Fraction by Wt: 10-15%
Other REC Limits:NONE SPECIFIED
OSHA PEL:S,200PPM/250STEL
ACGIH TLV:S,200PPM/250STEL; 93
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

===== Hazards Identification =====
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LD50 LC50 Mixture:ORAL RAT LD50 = 800 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: MAY BE FATAL IF INHALED,
SWALLOWED, OR ABSORBED THROUGH SKIN, CAUSES SEVERE EYE IRRITATION,
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY
TRACT, MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTIONS. CHRONIC:
CARCINOGEN. MAY ALTER GENETIC MATERIAL.
Explanation of C
arcinogenicity:FORMALDEHYDE IS LISTED UNDER NTP AND
IARC.
Effects of Overexposure:SEVERE EYE IRRITATION, RESPIRATORY AND SKIN
IRRITATION, COUGHING, CHEST PAINS, DIFFICULTY IN BREATHING,
PULMONARY EDEMA, EFFECTS MAY BE DELAYED.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF SKIN OR
EYE DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF BREA

THING HAS

STOPPED, GIVE CPR. GET IMMEDIATE MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH AFFECTED AREA WITH SOAP AND WATER. GET MEDICAL ATTENTION. EYE: WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:133F,56C

Autoignition Temp:Autoignition Temp Text:

572F

Lower Limits:7

Upper Limits:73

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL, POLYMER FOAM. WATER INEFFECTIVE TO EXTINGUSH FIRE, BUT EFFECTIVE FOR COOLING.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

Spill Release Procedures:EVACUATE AREA. WEAR SELF-CONTAINED BREATHING

APPARATUS, HEAVY BOOTS AND RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICK UP IS COMPLETE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM IGNITION SOURCES. KEEP CONTAINER CLOSED WHEN NOT IN USE. WEAR

RESPIRATOR, GLOVES, GOGGLES.

Other Precautions:USE ONLY IN A CHEMICAL FUME HOOD. DO NOT BREATHE VAPORS. DO NOT GET IN EYES, SKIN OR CLOTHING. READILY ABSORBED THROUGH SKIN.

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

Respiratory Protection:SELECT NIOSH/MSHA APPROVED RESPIRATOR BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE USING NIOSH POCKET GUIDE TO CHEMICAL HAZARDS. SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED FOR MOST CASES.

Ventila

tion:PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET THE PUBLISHED EXPOSURE LIMITS. USE EXPLOSION-PROOF EQUIP.
Protective Gloves:BUTYL OR NITRILE RUBBER.
Eye Protection:SPLASH PROOF SAFETY GOGGLES/FACESHIELD.
Other Protective Equipment:PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBLITY OF SKIN CONTACT. EYE WASH STATION & SAFETY SHOWER.
Work Hygienic Practices:WASH THOROUGHLY AFTER USE AND BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Su

pplemental Safety and Health

KEY1:F5. THIS MATERIAL CONTAINS METHANOL WHICH MAY CAUSE BLINDNESS AND/OR DEATH IF INGESTED. THIS IS PART C OF A 3-PART KIT. FOR PART A, SEE SAME NSN, CAGE 21076, PNI A. FOR PART B, SEE SAME NSN, CAGE 2L859, PNI A.

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

HCC:F4

Vapor Pres:52 @ 99F

Vapor Density:1.03

Spec Gravity:1.08

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID.

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, STRONG BASES. REACTS VIOLENTLY WITH STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE.

Conditions to Avoid Polymerization:MAY UNDERGO A NON-HAZARDOUS SELF-POLYMERIZATION TO FORM PARAFORMALDEHYDE WHICH PRECIPITATES OUT OF SOLUTION.

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

Waste Di

sposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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