

FOSTER-MILLER INC -- P/N 50551001(KIT), ISOPROPYL ALCOHOL, (SEE SUPPL.) --
1560-01-436-4757

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

Product ID:P/N 50551001(KIT), ISOPROPYL ALCOHOL, (SEE SUPPL.)

MSDS Date:09/03/1986

FSC:1560

NIIN:01-436-4757

Status Code:A

Kit Part:Y

MSDS Number: CLMML

=== Responsible Party ===

Company Name:FOSTER-MILLER INC

Address:350 2ND AVE

City:WALTHAM

State:MA

ZIP:02154-1104

Country:US

Info Phone Num:781-684-4272/FAX 781-890-3489

Emergency Phon

e Num:(781) 684-4272

CAGE:30233

=== Contractor Identification ===

Company Name:FOSTER-MILLER INC

Address:350 2ND AVE

Box:City:WALTHAM

State:MA

ZIP:02154-1104

Country:US

Phone:781-684-4272/FAX 781-890-3489

Contract Num:SP0470-01-C-1119

CAGE:30233

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

Ingred Name:ISOPROPYL ALCOHOL

CAS:67-63-0

RTECS #:NT8050000

Minumum % Wt:90.

Maxumum % Wt:100.

OSHA PEL:980 MG/M3;400 PPM

ACGIH TLV:983 MG/M3;400 PPM

ACGIH STEL:1225 MG/M3;500 PPM

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

LD50 LC50 Mixture:ORAL RAT, LD50: 5045 MG/KG.

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: VAPORS MAY CAUSE HEADACHE, NAUSEA, VOMITING, DIZZINESS, DROWSINESS, IRRITATION OF RESPIRATORY TRACT, LOSS OF CONSCIOUSNESS, PULMONARY EDEMA. LIQUID MAY BE IRRITATING TO SKIN AND EYES. PROLONGED SKIN CONTACT MAY RESULT IN

DERMATITIS. EYE CONTACT MAY RESULT IN TEMPORARY CORNEAL DAMAGE. INGESTION MAY CAUSE NAUSEA, VOMITING, HEADACHES, DIZZINESS, GASTROINTESTINAL IRRITATION. INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

Explanation of Carcinogenicity:NOT LISTED AS A CARCINOGEN BY NTP, IARC, Z LIST, OSHA REG.

Effects of Overexposure:TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM.

INHALATION OF VAPORS MAY CAUSE HEADACHE, NAUSEA, VOMITING, DIZZINESS, DROWSINESS, IRRITATION OF RESPIRATORY TRACT, AND LOSS OF CONSCIOUSNESS. INHALATION OF VAPORS MAY CAUSE PULMONARY EDEMA. LIQUID MAY BE IRRITATING TO SKIN AND EYES. PROLONGED SKIN CONTACT MAY RESULT IN DERMATITIS. EYE CONTACT MAY RESULT IN TEMPORARY CORNEAL DAMAGE. INGESTION MAY CAUSE NAUSEA, VOMITING, HEADACHES, DIZZINESS, GASTROINTESTINAL IRRITATION. INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

Medical Condition Aggravated by Exposure:NONE IDENTIFIED.

===== First Aid Measures

First Aid:CALL A PHYSICIAN. IF SWALLOWED, DO NOT INDUCE VOMITING. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. FLUSH SKIN WITH WATER.

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

Flash Point Method:CC

Flash Point:11.7C, 53.F

Lower Limits:2.0%

Upper Limits:12.0%

Ext

Extinguishing Media:USE ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE.
(WATER MAY BE INEFFECTIVE)

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. MOVE CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL.

Unusual Fire/Explosion Hazard:VAPORS MAY FLOW ALONG SURFACES TO DISTANT IGNITION SOURCES AND FLASH BACK. CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE. CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE. TOXIC GASES PRODUCED: CARBON MONOXIDE, CARBON DIOXIDE.

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

Spill Release Procedures:WEAR SUITABLE PROTECTIVE CLOTHING. SHUT OFF IGNITION SOURCES; NO FLARES, SMOKING, OR FLAMES IN AREA. STOP LEAK IF YOU CAN WITHOUT RISK. USE WATER SPRAY TO REDUCE VAPORS. TAKE UP WITH SAND OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR LATER DISPOSAL. FLUSH AREA WITH WATER. J.T. BAKER SOLUSORB SOLVENT ABSORBENT IS RECOMMENDED FOR SPILLS OF THIS PRODUCT.

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

Handling and Storage Precautions:SAF-T-DATA STORAGE COLOR CODE: RED (FLAMMABLE). KEEP AWAY FROM HEAT, SPARKS, FLAME, AVOID CONTACT WITH EYES, SKIN, CLOTHING. AVOID BREATHING VAPOR. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FLUSH SPILLED AREAS WITH WATER SPRAY.

Other Precautions:BOND AND GROUND CONTAINERS WHEN TRANSFERRING LIQUID. KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-VENTILATED, FLAMMABLE LIQUID STORAGE AREA. SAF-T-DATA STORAGE COLOR CODE: RED: FLAMMABLE.

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

Respiratory Protection:RESPIRATORY PROTECTION REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS UP TO 1000 PPM, A CHEMICAL CARTRIDGE RESPIRATOR

WITH ORGANIC VAPOR CARTRIDGE IS
RECOMMENDED. ABOVE THIS LEVEL, A SELF-CONTAINED BREATHING
APPARATUS IS RECOMMENDED.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV
REQUIREMENTS.

Protective Gloves:NEOPRENE GLOVES ARE RECOMMENDED.

Eye Protection:SAFETY GOGGLES ARE RECOMMENDED.

Other Protective Equipment:UNIFORM, APRON ARE RECOMMENDED. LABORATORY
PROTECTIVE EQUIPMENT: SAFETY GLASSSES, LAB COAT, VENT HOOD, PROPER
GLOVES, CLASS B EXTINGUISHER.

Work Hygienic Prac

tices:AVOID CONTACT WITH EYES, SKIN, CLOTHING. AVOID
BREATHING VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. USE WITH
ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FLUSH SPILL
AREAS WITH WATER SPRAY.

Supplemental Safety and Health

PRODUCT CODES: U298, 5082, 9080. THIS ENTRY DESCRIBES SECOND PART OF A
TWO PART KIT; ISOPROPYL ALCOHOL, MSDS SERIAL NUMBER "CLMML". SEE
THIS SAME NSN, MSDS SERIAL NUMBER "CLMMP", METHYL ISO-BUTYL KETO
NE, FOR FIRST PART OF KIT

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

HCC:F2
Boiling Pt:=82.2C, 180.F
Melt/Freeze Pt:=-89.C, -128.2F
Vapor Pres:33 MM HG
Vapor Density:2.1(AIR=1)
Spec Gravity:0.79 (H2O=1)
Evaporation Rate & Reference:2.83 (BUTYL ACETATE=1)
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS LIQUID WITH SLIGHT ODOR OF RUBBING
ALCOHOL.
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
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STRONG OXIDIZING AGENTS, ALUMINUM, NITRIC ACID, SULFURIC ACID, AMINES
AND AMMONIA, HALOGEN ACIDS AND HALOGEN COMPOUNDS.

Stability Condition to Avoid: HEAT, FLAME, OTHER SOURCES OF IGNITION.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information: ORAL, RAT, LD50: 5045 MG/KG; IPR, MOUSE,
LD50: 933 MG/KG; SKIN, RABBIT, LD50: 13 G/KG; IV, M
OUSE, LD50: 1863
MG/KG.

===== Ecological Information =====

Ecological: EPA WASTE NUMBER: D001 (IGNITABLE WASTE).

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

Waste Disposal Methods: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE
FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. EPA HAZARDOUS
WASTE NUMBER: D001 (IGNITABLE WASTE).

===== MSDS Transport Information =====

Transport Information: DOMESTIC (D.O.T.): PROPER SHIPPING NAME:
ISOPROPANOL; HAZARD CLASS: FLAMMABLE LIQUID; UN 1219; LABELS:
FLAMMABLE LIQUID. INTERNATIONAL (I.M.O.): PROPER SHIPPING NAME:
ISOPROPANOL; HAZARD CLASS: 3.2; UN 1219; LABELS: FLAMMABLE LIQUID.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no
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particular situation.