

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

Cou

ntry:US

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

Emergency Phone 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

Minimum % Wt:90.

Maximum % Wt:100.

OSHA PEL:980 MG/M3;40

0 PPM
ACGIH TLV:983 MG/M3;400 PPM
ACGIH STEL:1225 MG/M3;500 PPM

===== 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,
IARC 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 Conditions 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:C

C

Flash Point:=11.7C, 53.F

Lower Limits:2.0%

Upper Limits:12.0%

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 WIT HOUT RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL.

Unusual Fire/Explosion Hazard:VAPO

RS 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 MON OXIDE, 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 VAP

ORS. 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 SPILL 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, VEN T HOOD, PROPER

GLOVES, CLASS B EXTINGUISHER.

Work Hygienic Practices: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

===== 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 =====

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Stability Indicator/Materials to Avoid:YES

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, MOUSE, LD50: 1863 MG/KG.

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

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

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MSDS Transp
ort Information
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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; U N 1219; LABELS: FLAMMABLE LIQUID.

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Other Information
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Disclaimer (provided with this information by the compiling agencies):
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of Defense. The United States of America in no manner whatsoever,
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assume responsibility for the suitability of this information to their
particular situation.