

GARDINER SOLDER CO, DIV OF GARDINER METAL CO -- SOLDERING FLUX 1235 --  
3439-00-069-5815

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

Product ID:SOLDERING FLUX 1235

MSDS Date:05/01/1990

FSC:3439

NIIN:00-069-5815

MSDS Number: BJPWZ

=== Responsible Party ===

Company Name:GARDINER SOLDER CO, DIV OF GARDINER METAL CO

Address:4820 S CAMPBELL AVE

City:CHICAGO

State:IL

ZIP:60632-1416

Country:US

Info Phone Num:312-

847-0100

Emergency Phone Num:312-847-0100/800-424-9300(CHEMTREC)

CAGE:56244

=== Contractor Identification ===

Company Name:GARDINER SOLDER CO, DIV OF GARDINER METAL CO

Address:4820 S CAMPBELL AVE

Box:City:CHICAGO

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

Ingred Name:ROSIN ACID

CAS:8050-09-7

Fraction by Wt: 10-50% %

Other REC Limits:NONE SPECIFIED

Ingred Name:ISOPROPYL ALCOHOL (SA

RA III)  
CAS:67-63-0  
RTECS #:NT8050000  
Fraction by Wt: 38-69% %  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:400 PPM/500 STEL  
ACGIH TLV:400 PPM/500STEL;9192

Ingred Name:ISOBUTYL ALCOHOL (SARA III)  
CAS:78-83-1  
RTECS #:NP9625000  
Fraction by Wt: 5-9% %  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM  
ACGIH TLV:50 PPM; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:HYDROTREATED LIGHT PETROLEUM DISTILLATE  
CAS:64742-47-8  
Fraction by Wt: 7-12% %  
Other REC Limits:200 PPM MANUFACTURER

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES:MAY CAUSE IRRITATION.SKIN:MAY  
CAUSE IRRITATION.INGEST:MAY CAUSE GI TRACT IRRITATION.INHAL:MAY  
CAUSE RESPIRATORY IRRITATION.  
Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%  
WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.  
Effects of Overexposure:INHAL: H  
EADACHE, DIZZINESS, DIFFICULTY  
BREATHING. INGEST: NAUSEA, VOMITING. SKIN: REDNESS, BURNING, RASH,  
DRYNESS. EYE: REDNESS, BURNING, TEARING, BLURRED VISION.  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN AND  
RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND  
WATER;APPLY AHND LOTION.EYES:FLUSH WITH WATER FOR 15  
MINUTE

S.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,GIVE WATER TO DILUTE STOMACH CONTENTS.

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

Flash Point Method:TCC

Flash Point:53.0F,11.7C

Lower Limits:2

Upper Limits:12

Extinguishing Media:ALCOHOL FOAM, DRY CHEMICAL, CARBON DIOXIDE.

Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL

PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.

Unusual Fire/Explosion Hazard:DIRECT WATER STREAM MAY SPREAD BURNING LIQUID.

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

Spill Release Procedures:ELIMINATE SOURCES OF IGNITION.USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.VENTILATE AREA.SOAK UP WITH A NON-COMBUSTIBLE INERT ABSORBANT(CLAY,SAND);PLACE IN PROPER CONTAINER FOR DISPOSAL.SMALL SPILLS CAN BE FLUSHED TO SEWER WITH WATER.

ER.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.AVOID HEAT,FLAMES AND OXIDIZERS.

Other Precautions:FOLLOW LABEL DIRECTIONS.AVOID BREATHING VAPORS.AVOID SKIN AND EYE CONTACT.GROUND CONTAINERS WHEN TRANSFERRING LIQUIDS.

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

Respiratory Protection:WHE

RE ENVIRONMENTAL CONTROLS ARE LACKING OR IN  
ENCLOSED SPACES USE A NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC  
VAPORS.

Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL)  
VENTILATION TO MAINTAIN TLV/PEL.

Protective Gloves:PLASTIC OR RUBBER DURING SOLDERING

Eye Protection:GOGGLES OR FACE SHIELD DURING SOLDERING

Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A  
LOCAL EYE WASH STATION.

Work Hygienic Practices:USE REASONABLE CARE IN HANDLING THIS  
PROD

UCT.WASH HANDS AFTER USE AND BEFORE EATING.

Supplemental Safety and Health

NONE

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

HCC:F3

Boiling Pt:B.P. Text:181F,83C

Melt/Freeze Pt:M.P/F.P Text:-127F,-88C

Vapor Pres:33

Vapor Density:2.7

Spec Gravity:0.830-0.920

Evaporation Rate & Reference:1.7 (BUTYL ACETATE = 1)

Solubility in Water:APPRECIABLE

Appearance and Odor:AMBER LIQUID, ALCOHOL ODOR

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

Stability

Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HIGH HEAT,SOURCES OF IGNITION.

Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE,  
HYDROCARBONS

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

Waste Disposal Methods:RECLAIM, INCINERATE OR DISPOSE OF IN ACCORDANCE  
WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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