



SAFETY DATA SHEET (SDS)

Amerway 400-50 Flux

Date: 1/1/2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Amerway CH RSA 400-50 RA Rosin Flux

CAS No: 67-63-0 Isopropyl alcohol

Index No: 603-117-00-0

EC No: 200-661-7

RECOMMENDED USE: Soldering Flux

Details of the supplier of the safety data sheet:

MANUFACTURER:

Amerway Inc.
3701 Beale Ave.,
Altoona, PA 16601

PHONE: 814-944-0200

FAX PHONE: 814-944-1463

EMERGENCY TELEPHONE NUMBER:

CHEMTREC: 800-424-9300

CHEMTREC (Outside US & Canada): 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF CHEMICAL:

This substance is classified and labeled according to the Globally Harmonized System (GHS).



GHS08 Health Hazard.



GHS02 Flame

SIGNAL WORD: Danger

HAZARD STATEMENT:

H225 Highly flammable liquid and vapor.

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENT:

P210 Keep away from heat/spark/open flames/hot surfaces. No Smoking.

P261 Avoid breathing vapors or spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P333+313 If skin irritation or rash occurs: Get medical attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:



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<u>CAS NO.</u>	<u>DESCRIPTION</u>	<u>% WT</u>
67-63-0	Isopropyl alcohol	45-55

SECTION 4: FIRST AID MEASURES

EMERGENCY OVERVIEW: Call a POISON CENTER or physician if you feel unwell.

POTENTIAL HEALTH EFFECTS FOLLOWING

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. If eye irritation persists, get medical advice or attention.

SKIN or HAIR CONTACT: Immediately remove all contaminated clothing. Rinse skin with water. If skin irritation occurs, get medical advice or attention.

INGESTION: Rinse mouth with water. Call a POISON CENTER or physician if you feel unwell.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

ACUTE HEALTH HAZARDS: No information available.

CHRONIC HEALTH HAZARDS: No information available.

MOST IMPORTANT SYMPTOMS/EFFECTS: No further relevant information available.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Flammable liquid: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide, a tri-class dry chemical fire extinguisher.

UNSUITABLE EXTINGUISHING MEDIA: No information available.

FLASH POINT: 18 °C for 50-90%, Flash point: 21 °C for 40%.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: When heated to decomposition, may emit toxic fumes, Carbon oxides.

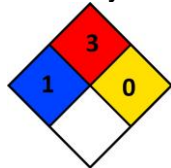
HAZARDOUS COMBUSTION PRODUCTS: No further relevant information available.

NFPA RATINGS (scale 0-4)

Health= 1

Fire= 3

Reactivity= 0



HMIS RATINGS (scale 0-4)

Health= 1

Fire= 3

Reactivity= 0



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HEALTH	1
FIRE	3
REACTIVITY	0

SPECIAL FIRE FIGHTING EQUIPMENT/PROCEDURES: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND PROTECTIVE EQUIPMENT: Ensure adequate ventilation. Use personal protective equipment
Avoid dust formation

ENVIRONMENTAL PRECAUTIONS: Should not be released into the environment. Do not allow to enter sewers/surface or ground water.
Do not flush into surface water or sanitary sewer system.

CONTAINMENT AND CLEANUP: Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING: Use only in a hood or well ventilated area.

STORAGE: Store in a cool location, Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacle.

OTHER PRECAUTIONS: Keep ignition sources away – Do Not Smoke. Protect against electrostatic charges.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES: (as isopropyl alcohol) PEL 980 mg/m³ (OSHA); TLV 492 mg/m³ Ceiling 984 mg/m³ (ACGIH)

ENGINEERING CONTROLS:

PERSONAL PROTECTIVE EQUIPMENT

SKIN AND BODY PROTECTION: Protective gloves and clothing.

RESPIRATORY PROTECTION: Use only in a hood or well-ventilated area.

EYE/FACE PROTECTION: Tightly sealed goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None.

WORK HYGIENIC PRACTICES:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact the eyes and skin.

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:

67-63-0 Isopropyl alcohol

PEL - Long term value: 980 mg/m³, 400 ppm

REL – Short term value: 1225 mg/m³, 500 ppm
Long term value: 980 mg/m³, 400 ppm

TLV - Short term value: 984 mg/m³, 400 ppm
Long term value: 492 mg/m³, 200 ppm



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INGREDIENTS WITH BIOLOGICAL LIMIT VALUES:

67-63-0 Isopropyl alcohol

BEI – 40mg/L

Urine

End of shift at end of work week

Acetone (background, nonspecific)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Fluid

APPEARANCE: Clear

ODOR: Alcohol like.

ODOR THRESHOLD:

pH Neutral

MELTING POINT/RANGE: -89.5°C (-129 °F)

BOILING POINT/RANGE: 82°C (180°F)

FLASH POINT: 12°C (54°F) closed cup

FREEZING POINT/RANGE:

EVAPORATION RATE: 3.0

FLAMMABILITY (SOLID, GAS): Not applicable.

FLAMMABILITY OR EXPLOSIVE LIMITS

UPPER: 12.7 Vol%

LOWER: 2 Vol%

VAPOR PRESSURE: 38°C (100°F): 42 hPa (32 mm Hg)

VAPOR DENSITY: No data available.

RELATIVE DENSITY: Not determined.

SOLUBILITY IN WATER: 20°C (68°F): 1 g/l

PARTITION COEFFICIENT; N-OCTANOL/WATER: Not determined.

AUTOIGNITION TEMPERATURE: Not determined.

DECOMPOSITION TEMPERATURE: Not determined.

VISCOSITY: 20°C (68°F): No data available.

MOLECULAR FORMULA: C₃H₈O

MOLECULAR WEIGHT: 60, 10 g/mol

SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS REACTIONS: Highly flammable liquid and vapor.

CONDITIONS TO AVOID: Heat, flames, sparks.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids, and isocyanates.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No information available.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - Rat - 5.045 mg/kg

Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Somnolence (general depressed activity).

LC50 Inhalation - Rat - 8 h - 16000 ppm

LD50 Dermal - Rabbit - 12.800 mg/kg



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Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Eye irritation - 24 h

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Isopropyl)

Reproductive toxicity No data available

Specific target organ toxicity - single exposure Inhalation, Oral - May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information

RTECS: NT8050000

Central nervous system depression, prolonged or repeated exposure can cause: Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to: Lung oedema, Pneumonia

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence

ROUTES OF EXPOSURE

EYES: Serious Irritant effect.

SKIN: Causes mild skin irritant effect.

INGESTION: The single lethal dose for a human adult is about 400 mL, although as little as 150 mL can be fatal.

INHALATION: Avoid breathing vapors or spray.

ACUTE HEALTH HAZARDS: Serious eye irritant, mild skin irritant, dizziness, drowsiness, nausea, headache.

CHRONIC HEALTH HAZARDS: Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

AQUATIC TOXICITY:

Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 9.640,00 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 5.102,00 mg/l - 24 h
Immobilization EC50 - Daphnia magna (Water flea) - 6.851 mg/l - 24 h

Toxicity to algae
EC50 - Desmodesmus subspicatus (green algae) - > 2.000,00 mg/l - 72 h
EC50 - Algae - > 1.000,00 mg/l - 24 h

PERSISTENCE AND DEGRADABILITY: No further relevant information available



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BIOACCUMULATIVE POTENTIAL: No bioaccumulation is to be expected (log Pow <= 4).

MOBILITY IN SOIL: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Disposal must be made according to all federal, state and local regulations that may apply.

SECTION 14: TRANSPORT INFORMATION

LAND TRANSPORT (DOT/ADR/RID)

UN/NA NUMBER: UN1219 (Not Regulated)
UN PROPER SHIPPING NAME: UN1219 Isopropanol (Isopropyl Alcohol)
TRANSPORT HAZARD CLASS(ES): Class 3 Flammable liquids/Label 3.
HAZARD LABEL(S):
PACKING GROUP: II
ENVIRONMENTAL HAZARDS: No
TRANSPORT IN BULK:
HAZARD IDENTIFICATION NUMBER (Kemler No.): 33
SPECIAL PRECAUTIONS: Warning: Flammable liquids



INLAND WATERWAY TRANSPORT (ADN)

UN/NA NUMBER: UN1219 (Not Regulated)
UN PROPER SHIPPING NAME: UN1219 Isopropanol (Isopropyl Alcohol)
TRANSPORT HAZARD CLASS(ES): Class 3 Flammable liquids/Label 3.
HAZARD LABEL(S):
PACKING GROUP: II
ENVIRONMENTAL HAZARDS: No
TRANSPORT IN BULK:
HAZARD IDENTIFICATION NUMBER (Kemler No.): 33
SPECIAL PRECAUTIONS: Warning: Flammable liquids

SEA TRANSPORT (IMDG)

UN/NA NUMBER: UN1219 (Not Regulated)
UN PROPER SHIPPING NAME: UN1219 Isopropanol (Isopropyl Alcohol)
TRANSPORT HAZARD CLASS(ES): Class 3 Flammable liquids/Label 3.
HAZARD LABEL(S):
PACKING GROUP: II
ENVIRONMENTAL HAZARDS: No
TRANSPORT IN BULK:
HAZARD IDENTIFICATION NUMBER (Kemler No.): 33
SPECIAL PRECAUTIONS: Warning: Flammable liquids

AIR TRANSPORT (ICAO-TI/IATA-DGR)

UN/NA NUMBER: UN1219 (Not Regulated)
UN PROPER SHIPPING NAME: UN1219 Isopropanol (Isopropyl Alcohol)
TRANSPORT HAZARD CLASS(ES): Class 3 Flammable liquids/Label 3.
HAZARD LABEL(S):
PACKING GROUP: II
ENVIRONMENTAL HAZARDS: No



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TRANSPORT IN BULK:

HAZARD IDENTIFICATION NUMBER (Kemler No.): 33

SPECIAL PRECAUTIONS: Warning: Flammable liquids

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations

TSCA 12(b) All components listed for the subject finished product are on the TSCA Inventory of Chemical Substances and are not subject to any chemical specific regulation under TSAC Section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

All ingredients are listed or exempt from listing.

SARA 313 Substance is listed.

SARA 311/312 Hazardous Categorization

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

Reactive Hazard

Proposition 65

Chemicals known to cause cancer: None of the ingredients listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients listed.

Chemicals known to cause developmental toxicity: This product contains a chemical(s) known to the State of California to cause birth defects and/or other reproductive harm.

Carcinogenic Categories

EPA (Environmental Protection Agency):

TLV (Threshold Limit Value established by ACGIH)

NIOSH-Ca (National Institute of Occupational Safety and Health)

OSHA-Ca (Occupational Safety & Health Administration)

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION

NAME: Terry Buck

COMPANY: Amerway, Inc.

EMAIL: tbuck@amerway.com

CREATION DATE: 01/01/2012

REVISION DATE: 11/25/2019

REVISION SUMMARY: This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

DISCLAIMER:

This information is given in good faith, no warranty, express or implied is made. Amerway Inc. makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchasers use. The data on this Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved



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and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Safety Data Sheet as a source for hazard information.

End of SDS