



## SAFETY DATA SHEET (SDS)

Amerway 200 Flux

Date: 1/1/2020

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Amerway 200 Rosin Flux – RMA – 25

Meets the Joint Industry Standard J-STD-002

**CAS No:** 67-63-0 Isopropyl alcohol

**Index No:** 603-117-00-0

**EC No:** 200-661-7

**CAS No:** 8006-64-2 Turpentine

**Index No:**

**EC No:**

**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.



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**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:

<u>CAS NO.</u>		<u>% WT</u>
67-63-0	Isopropyl alcohol	65-75
8006-64-2	Turpentine	10-20

### 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

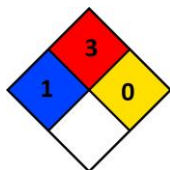
Reactivity= 0



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### HMIS RATINGS (scale 0-4)

Health= 1

Fire= 3

Reactivity= 0

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:** Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. 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/m<sup>3</sup> (OSHA); TLV 492 mg/m<sup>3</sup> Ceiling 984 mg/m<sup>3</sup> (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.



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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/m<sup>3</sup>, 400 ppm

REL - Short term value: 1225 mg/m<sup>3</sup>, 500 ppm  
Long term value: 980 mg/m<sup>3</sup>, 400 ppm

TLV - Short term value: 984 mg.m<sup>3</sup>, 400 ppm  
Long term value: 492 mg/m<sup>3</sup>, 200 ppm

#### 8006-64-2 Turpentine

PEL - Long term value: 100 ppm

TLV - Long term value: 492 mg/m<sup>3</sup>, 100 ppm

### 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)

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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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: Isopropyl C<sub>3</sub>H<sub>8</sub>O; Turpentine

MOLECULAR WEIGHT: 60, 10 g/mol; Turpentine 136 g/mol



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### 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. Do not combine with Stannic Chloride, Chromyl Chloride, Acetone, Chlorine.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No information available.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Acute toxicity-Isopropyl

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

#### 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

#### Acute toxicity-Isopropyl

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 5760 mg/kg [Rat].

Acute toxicity of the vapor (LC50): 29000 1 hours [Mouse].

**Specific target organ toxicity - single exposure** May cause damage to the following organs: kidneys, lungs, bladder, gastrointestinal tract, upper respiratory tract, skin, eyes, Urinary System, central nervous system (CNS), ears, nose/sinuses.

**Other Toxic Effects on Humans:**



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Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

### 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

**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 (ADR/RID) SEA TRANSPORT (IMDG) AIR TRANSPORT (IATA)

**UN/NA NUMBER:** UN1219 (Isopropyl-Not Regulated) UN1299 (Turpentine)  
**UN PROPER SHIPPING NAME:** UN1219 Isopropanol (Isopropyl Alcohol) UN1299 (Turpentine)  
**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



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### 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** Yes

**Chronic Health Hazard** Yes

**Fire Hazard** Yes

**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:** None of the ingredients listed.

#### **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



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products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved 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**