

SAFETY DATA SHEET (SDS)

DCN: LBR SDS xxx V1.0_2013.11.15

NAME OF PRODUCT:

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MARIANNA ISOPROPYL ALCOHOL 70%
SYNONYMS:
PRODUCT CODES: 30519

MANUFACTURER: Marianna Industries INC
ADDRESS: 11222 I St.

EMERGENCY PHONE: (800) 457-4280
INFOTRAC PHONE: (800) 457-4280
MANUFACTURER Phone: (402) 593-0211
FAX PHONE: 402-593-0614

PRODUCT USE: Rubbing Alcohol
PREPARED BY: Steve Hudson
DATE PREPARED: 29JUL15

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

2. HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 GHS Label elements, including precautionary statements Pictogram Signal word Danger Hazard statement(s) H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. Precautionary statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P337 + P313 If eye irritation persists: Get medical advice/attention. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

1 Substances Synonyms : 2-Propanol sec-Propyl alcohol Isopropyl alcohol Isopropanol Formula : C₃H₈O Molecular weight : 60.10 g/mol CAS-No. : 67-63-0 EC-No. : 200-661-7 Index-No. : 603-117-00-0

SECTION 4: FIRST AID MEASURES

Description of first aid measures General advice Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Do NOT in Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 4.3 Indication of any immediate medical attention and special treatment needed No data available

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SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture Carbon oxides 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information Use water spray to cool unopened container

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). 6.4 Reference to other sections: For disposal see section 13.:

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas. hygroscopic 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Components with workplace control parameters Component CAS-No. Value Control parameters Basis 2-Propanol 67-63-0 TWA 200.000000 ppm USA. ACGIH Threshold Limit Values (TLV)

Personal protective equipment Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 60 min Material tested: Dermatril® P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Body Protection impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 8 NOTES:

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: liquid Colour: colourless b) Odour alcohol-like c) Odour Threshold No data available d) pH No data available e) Melting point/freezing point Melting point/range: -89.5 °C (-129.1 °F) - lit. f) Initial boiling point and boiling range 82 °C (180 °F) - lit. g) Flash point 12.0 °C (53.6 °F) - closed cup h) Evaporation rate 3.0 i) Flammability (solid, gas) No data available j) Upper/lower flammability or Upper explosion limit: 12.7 % (V) Lower explosion limit: 2 % (V) Aldrich - W292907 Page 6 of 9 explosive limits k) Vapour pressure 43.2 hPa (32.4 mmHg) at 20.0 °C (68.0 °F) 58.7 hPa (44.0 mmHg) at 25.0 °C (77.0 °F) l) Vapour density No data available m) Relative density 0.785 g/cm³ at 25 °C (77 °F) n) Water solubility completely soluble o) Partition coefficient: noctanol/water log Pow: 0.05 p) Auto-ignition temperature 425.0 °C (797.0 °F) q) Decomposition temperature No data available r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available 9.2 Other safety information Surface tension 20.8 mN/m at 25.0 °C (77.0 °F) **BASIS (=1):**

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity No data available 10.2 Chemical stability Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year. Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions Vapours may form explosive mixture with air. 10.4 Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight. 10.5 Incompatible materials Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids 10.6 Hazardous decomposition products Other decomposition products - No data

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 No data available Skin corrosion/irritation Skin - Rabbit Result: Mild skin irritation Serious eye damage/eye irritation Eyes - Rabbit Result: Eye irritation - 24 h Respiratory or skin sensitisation 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 (2-Propanol) NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available 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 Kidney - Irregularities - Based on Human Evidence

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

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 12.3 Bioaccumulative potential No bioaccumulation is to be expected (log Pow <= 4). 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.6 Other adverse effects No data available

SECTION 12 NOTES:

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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging Dispose of as unused product.

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

DOT (US) UN number: 1219 Class: 3 Packing group: II Proper shipping name: Isopropanol Reportable Quantity (RQ):
Poison Inhalation Hazard: No IMDG UN number: 1219 Class: 3 Packing group: II EMS-No: F-E, S-D Proper shipping name:
ISOPROPANOL IATA UN number: 1219 Class: 3 Packing group: II Proper shipping name: Isopropanol

SECTION 15: REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: 2-Propanol CAS-No. 67-63-0 Revision Date 1987-01-01 SARA 311/312 Hazards Fire Hazard, Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components 2-Propanol CAS-No. 67-63-0 Revision Date 1987-01-01 Pennsylvania Right To Know Components 2-Propanol CAS-No. 67-63-0 Revision Date 1987-01-01 New Jersey Right To Know Components 2-Propanol CAS-No. 67-63-0 Revision Date:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: