# SAFETY DATA SHEET

**Isopropanol** **Revision Date** 10/21/2018

## SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** **Isopropanol**
Isopropanol 70% & Isopropanol 99%

**Item** ALC6100
BLN5018

**Product Use** Solvent

**Company Name** Buckley Oil Company
2900 Kemp Ranch Crossing
Midlothian TX 76065

**Office** (214) 421-4147
**Fax** (214) 428-4566
**Web** www.buckleyoil.com

**EMERGENCY TELEPHONE NUMBER** **INFOTRAC (800) 535-5053**

## SECTION – 2 HAZARDS INFORMATION

**Pictogram**

**Signal Word** Danger

**Hazards**

| PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS | HAZARD CATEGORY CLASSIFICATION | | CODE |
|---|---|---|---|
| Highly flammable liquid and vapor | Category 2 | Flammable Liquids | H225 |
| Causes serious eye irritation | Category 2A | Eyes | H319 |
| May cause drowsiness or dizziness | Category 3 | STOT Single Exposure | H336 |

**Precautions**

| HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL | CODE |
|---|---|
| Keep away from heat / sparks / open flames / hot surfaces – No smoking | P210 |
| Keep container tightly closed | P233 |
| Ground / bond container and receiving equipment | P240 |
| Use explosion-proof electrical / ventilating / lighting /or /equipment | P241 |
| Use only non-sparking tools | P242 |
| Take precautionary measures against static discharge | P243 |
| Avoid breathing dust / fume / gas / mist / vapours / spray | P261 |
| Wash thoroughly after handling | P264 |
| Use only outdoors or in a well-ventilated area | P271 |
| Wear protective gloves / protective clothing / eye protection / face protection | P280 |
| In case of fire: Use dry chemicals, CO2, alcohol foam. Water spray to cool or protect exposed materials | P370+P378 |
| Store in a well-ventilated place, Store locked up, Keep container tightly closed, Keep cool | P403+P405+P233+P235 |
| Dispose of material in accordance with all State and Federal Guidelines and Regulations | P501 |

## SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

| CHEMICAL NAME | COMMON NAME AND SYNONYMS | CAS # | IMPURITIES | PERCENT |
|---|---|---|---|---|
| Isopropyl Alcohol | Isopropanol ; 2-propanol | 67-63-0 | Water < 1% | 70 to 99% |

## SECTION – 4 FIRST AID MEASURES

**Eye Contact** Immediately flush eyes with cold water for several minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists seek medical aid

**Skin Contact** Wash with soap and water, Remove any contaminated clothing and wash before reuse, If irritation occurs or persists seek medical aid

**Inhaled** Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

**Ingested** DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into the lungs

**Aspiration Hazard** Not classifiable as an aspiration hazard, May be harmful if swallowed and enters airways

**Important Effects** Exposure may cause, dizziness or drowsiness

**Important Symptoms** Symptoms may include, central nervous system depression, narcotic effects

## SECTION – 5 FIRE FIGHTING MEASURES

| | |
|---|---|
| **Extinguishing Media** | SUITABLE: Use DRY chemicals, CO2 or alcohol foam, Water spray to cool or protect exposed materials, UNSUITABLE: Avoid using a water stream. Product will float upon water and could spread any fire |
| **Explosion Hazard** | Highly flammable liquid and vapor, May explode if ignited in an enclosed area, May form flammable or explosive vapor-air mixture, Flashback along vapor trail may occur, Containers may explode or erupt during a fire when heated excessively, Product will float and can be reignited on surface water |
| **Hazardous Decomposition** | Burning or thermal decomposition can produce, carbon oxides |
| **Protective Equipment** | Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear |

**FLAMMABLE LIQUIDS HAZARD CLASSIFICATION**

| | |
|---|---|
| **Criteria** | Flash point < 23°C (73°F) and initial boiling point > 35°C (95°F) |
| **NFPA** | Class I B |
| **GHS** | Category 2 |
| **WHMIS** | Class B-2 |

**NFPA HAZARD RATINGS**

| | |
|---|---|
| **Health** | 1 |
| **Flammability** | 3 |
| **Reactivity** | 0 |
| **Special Hazards** | FBG |


## SECTION – 6 ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **Emergency Procedures** | Warn personnel to move away and stay upwind from spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from entering the hazard area, Eliminate ignition sources and ventilate area |
| **Personal Precautions** | Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill |
| **Protective Equipment** | Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron and Rubber Boots |
| **Containment** | Use sand or inert non-combustible absorbent pads to prevent spill from spreading, Prevent spill from entering the environment, waterways, sewers, basements or confined areas |
| **Clean Up Procedures** | Use sand or inert non-combustible absorbent pads or material. Collect product using non-sparking tools and place into approved container for proper disposal |
| **Disposal** | Dispose of material in accordance with all State and Federal Guidelines and Regulations, Contact a licensed waste disposal contractor for proper disposal |

## SECTION – 7 HANDLING AND STORAGE

| | |
|---|---|
| **Handling** | Keep away from incompatible materials, heat, sparks, electrical equipment, fire and all ignition sources, Do not get in eyes, on skin, or clothing, or breathe mist, vapor or fumes, Use appropriate safety equipment, and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly after handling, Use only non-sparking tools, Avoid free fall of liquid, Ground containers when transferring, Empty containers are very hazardous, Do not flame cut, saw or drill. Refer to NFPA-704 and/or API RP 2003 for specific bonding and grounding requirements, Consulting with a Safety Equipment Supplier is recommended |
| **Storage** | Keep container closed when not in use, Store in a cool, well-ventilated area and away from incompatible materials, Store away from heat, sparks, open flames or hot surfaces, Store below 49ºC (120ºF) and in accordance with Class I B Flammable Liquids (GHS Category 2) |
| **Incompatible Materials** | Incompatible with, acid anhydrides, amines, ethylene oxide, halogenated agents, IIsocyanates, oxidizing agents, strong acids, strong bases |

## SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS**

| CHEMICAL NAME | ACGIH (TWA 8) | ACGIH (STEL) | OSHA PEL (TWA 8) | OSHA (CEIL) | Significant Exposure |
|---|---|---|---|---|---|
| Isopropyl Alcohol | 200 ppm (A4) | 400 ppm | 400 ppm | 500 ppm (1225 mg/m³) | CNS |

**PERSONAL PROTECTION**

**HMIS HAZARD RATINGS**

| | |
|---|---|
| Health | 1 |
| Flammability | 3 |
| Reactivity | 0 |
| Personal Protection | H |

| | |
|---|---|
| **Eyes** | Wear safety glasses or goggles or face shield when handling / using this material |
| **Hands** | Wear chemical resistant impervious gloves when handling / using this material |
| **Lungs** | Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced |
| **Body** | "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when handling / using this material |
| **Feet** | "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling / using this material |
| **Response** | Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of material |
| **Ventilation** | Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA / NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus |

## SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Flash Point** | [99% = 12.0°C (53.6°F)] [70% = 25ºC (77ºF)] - TCC | **Specific Gravity / Density** | [99% = 0.785] [70% = 0.88] |
| **Flammable Limits** | Lower 2.0%, Upper 12.7% | **pH (± 0.3)** | NA |
| **Auto-Ignition Temp.** | 398ºC (750ºF) | **Viscosity** | ND |
| **Physical State** | Liquid | **Freeze Point** | -90°C (-130°F) |
| **Appearance** | Clear | **Boiling Point** | 83°C (181.4°F) |
| **Odor** | Alcohol | **Vapor Density (air=1)** | 2.1 to 2.7 (Air = 1) |
| **Odor Threshold** | ND | **Vapor Pressure (mmHg)** | 32.4 to 33 mmHg at 20.0 °C (68.0 °F) |
| **Solubility** | 100% | **Evaporation Rate (nBuAc=1)** | 1.7 to 2.3 (butyl acetate = 1) |
| **Volatiles** | 100% | **Partition Coefficient** | ND |
| **VOC** | 70 to 99% | **Molecular Weight (g/mol)** | [99% = 60.10] [70% = 47.47] |
| **LVP-VOC** | ND | **Decomposition Temperature** | ND |

## SECTION – 10 STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | No specific test data related to reactivity available for this product or its ingredients |
| **Chemical Stability** | Stable under normal ambient and anticipated conditions of use |
| **Hazardous Polymerization** | Will not occur |
| **Conditions To Avoid** | Heat sources, sparks, flame or static discharge and incompatible materials |
| **Incompatible Materials** | Incompatible with, acid anhydrides, amines, ethylene oxide, halogenated agents, IIsocyanates, oxidizing agents, strong acids, strong bases |
| **Hazardous Decomposition** | Burning or thermal decomposition can produce, carbon oxides |

## SECTION – 11 TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

**ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

| | |
|---|---|
| **Eyes** | Can cause serious eye irritation |
| **Skin** | May cause skin irritation, drying or cracking |
| **Inhalation** | Mist, vapor or fumes may cause, drowsiness or dizziness |
| **Ingestion** | May be harmful if swallowed and enters airways |

**CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE**

| | |
|---|---|
| **Eyes** | Causes serious eye irritation, redness, tearing, or pain |
| **Skin** | May cause skin irritation, redness, burning, defatting of the skin which may lead to dermatitis |
| **Inhalation** | Mist, vapor or fumes may cause, drowsiness or dizziness, nausea, headache, fatigue, central nervous system depression |
| **Ingestion** | Can be harmful if swallowed and enters airways, Symptoms include, dizziness, drowsiness, headache, nausea, vomiting, abdominal pain |

**Acute Tox Calculate** **Oral:** 5,054 mg/kg **Dermal:** 12,870 mg/kg **Inhaled:** 78.6 mg/L

| | |
|---|---|
| **Acute Tox Category** | Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >20 mg/L) Vapors |
| **Additional Info** | Intentional misuse by deliberately concentrating and inhaling this product can be harmful or fatal |
| **Target Organs** | Blood, Kidneys, Liver, Respiratory Tract, Skin, Central Nervous System |
| **Medical Conditions** | Preexisting, eye, skin, liver, kidney, central nervous system, blood, respiratory, disorders may be aggravated by exposure to this product |
| **Notes to Physician** | Vomiting may cause aspiration pneumonia |

**CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

| CHEMICAL NAME | NTP | ACGIH | IARC | GHS Category |
|---|---|---|---|---|
| None Listed | NA | NA | NA | NA |

**MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:**

| CHEMICAL NAME | Germ Cell Mutagenicity | Toxic to Reproduction |
|---|---|---|
| None Listed | NA | NA |

**COMPONENTS ACUTE TOXICITY**

| CHEMICAL NAME | Type | Form | Subject | Result Value | Exposure Time | GHS Category |
|---|---|---|---|---|---|---|
| Isopropyl Alcohol | LD50 | Oral | Rat | 5,045 mg/kg | | (>2000 mg/kg) |
| | LC50 | Inhalation | Rat | 78.6 mg/L | 4 Hours (Vapor) | (>20 mg/L) |
| | LD50 | Dermal | Rabbit | 12,870 mg/kg | | (>2000 mg/kg) |

## SECTION – 12 ECOLOGICAL INFORMATION

| CHEMICAL NAME | Type | Subject | Subject Latin | Result Value | Exposure Time | GHS Category |
|---|---|---|---|---|---|---|
| Isopropyl Alcohol | LC50 | Fish | (Leuciscus idus) | >100 mg/L | 96 Hours | 4 (>100 mg/L) |
| | EC50 | Water Flea | (Daphnia magna) | 5,102 mg/L | 24 Hours | 4 (>100 mg/L) |
| | LC50 | Fathead Minnow | (Pimephales promelas) | 9,640 mg/L | 96 Hours | 4 (>100 mg/L) |

**Presistence And Degradability** No specific biodegradation test data was located, 86 - 94% Rapidly degradable in two weeks

**Bioaccumulative Potential** This material is not expected to bioaccumulate

**Mobility In Soil** Volatilization from water or soil surfaces is expected to be limited

**Other Adverse Effects** Acute toxicity to fish is very low

## SECTION – 13 DISPOSAL CONSIDERATIONS

**Disposal Statement** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER
Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

**Container Disposal** Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty containers should be returned to distributor or taken to an approved waste handling site for recycling or disposal

**Material Disposal** This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its ignitability and due to the composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270, Disposal can only occur in properly permitted facilities, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

## SECTION – 14 TRANSPORT INFORMATION

**DOT CLASSIFICATION**

| UN Number | Proper Shipping Name n.o.s. ( Chemicals ) or "Limits" |
|---|---|
| UN 1219 | Isopropyl alcohol |

| Hazard Class | Packing Group | Label Codes | Reportable Quantity (lb) | Response | Marine Pollutant | Hazard Label | Secondary |
|---|---|---|---|---|---|---|---|
| 3 | II | Flammable Liquid | None | 129 | No |  | |



**Additional Info:**

## SECTION – 15 REGULATORY INFORMATION

**TSCA**

| CHEMICAL NAME | Sec 8(b) Inventory | Sec 8(d) Health And Safety | Sec 4(a) Chemical Test Rules | Sec 12(b) Export Notification |
|---|---|---|---|---|
| Isopropyl Alcohol | Yes | Yes | | |

**REPORTABLE QUANTITIES**

| | Extremely Hazardous | | Reportable Quantity | Emission Reporting | | |
|---|---|---|---|---|---|---|
| CHEMICAL NAME | EPCRA TPQ Sec 302 | EPCRA RQ Sec 304 | CERCLA RQ Sec 103 | TRI Sec 313 | RCRA Code | RMP TQ Sec 112r |
| 2-Propanol | | | | Yes | | |

**SARA**

| | Section 311 | Section 311 / 312 Hazards | | | | |
|---|---|---|---|---|---|---|
| CHEMICAL NAME | Hazardous Chemical | Acute | Chronic | Flammable | Pressure | Reactive |
| Isopropyl Alcohol | Yes | Yes | Yes | Yes | | |

**RIGHT TO KNOW**

| | STATE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHEMICAL NAME | CA | CT | FL | IL | LA | NJ | NY | PA | MI | MN | MA | RI | WI |
| Isopropyl Alcohol | | | Yes | | | Yes | | Yes | | Yes | Yes | Yes | |

**CALIFORNIA** **WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to** www.P65Warnings.ca.gov

| CHEMICAL NAME | CAS # | Birth Defects | Reproductive Harm | Carcinogen | Developmental |
|---|---|---|---|---|---|
| None Listed | | | | | |

**CLEAN AIR WATER ACTS**

| | | Clean Air Acts | | | Clean Water Acts | | |
|---|---|---|---|---|---|---|---|
| CHEMICAL NAME | CAS # | HAP | Ozone Class 1 | Ozone Class 2 | HS | PP | TP |
| None Listed | | | | | | | |

**INTERNATIONAL REGULATIONS** – The components of this product are listed on the chemical inventories of the following countries:

| CHEMICAL NAME | Australia | Canada | Europe (EINECS) | Japan | Korea | UK |
|---|---|---|---|---|---|---|
| Isopropyl Alcohol | Yes | Yes | Yes | Yes | Yes | Yes |

## SECTION – 16 OTHER INFORMATION

| SDS | LEGEND DESCRIPTION |
|---|---|
| ~ | Approximately |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstracts Service Registry |
| CEIL | Ceiling Limit (15 minutes) |
| CERCL | Comprehensive Environmental Response, Compensation, and Liability Act |
| CI | Cochlear Impairment |
| CNS | Central Nervous System |
| EC50 | Concentration of a chemical that gives half-maximal response |
| EPA | Environmental Protection Agency |
| Eye | (EI = Irritation) (ED = Damage) (EV = Visual Impairment) |
| FBG | Full Bunker Gear |
| GHS | Globally Harmonized System |
| HAP | California Hazardous Air Pollutant Clean Air Act |
| HMIS-A | Safety glasses |
| HMIS-B | Safety glasses, gloves |
| HMIS-C | Safety glasses, gloves, chemical apron |
| HMIS-D | Face shield, gloves, chemical apron |
| HMIS-E | Safety glasses, gloves, dust respirator |
| HMIS-F | Safety glasses, gloves, chemical apron, dust respirator |
| HMIS-G | Safety glasses, gloves, vapor respirator |
| HMIS-H | Splash goggles, gloves, chemical apron, vapor respirator |
| HMIS-I | Safety glasses, gloves, dust and vapor respirator |
| HMIS-J | Splash goggles, gloves, chemical apron, dust and vapor respirator |
| HMIS-K | Air line hood or mask, gloves, full chemical suit, boots |
| HMIS-X | Ask Supervisor |
| HS | California Hazardous Substance under the Clean Water Act |
| IG / IH | (IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas) |
| KD | Kidney Damage (nephropathy) |
| LC50 | A concentration that is lethal to 50% of a given species in a given time |
| LD50 | Dose that is lethal to 50% of a given species by a given route of exposure |
| LEL | Lower Explosive Limit |
| LD | Liver Damage |
| NA | Not Applicable |
| ND | Not Determined |
| NE | Not Established |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit (OSHA) |
| PNS | Peripheral Nervous System |
| PP | California Priority Pollutant under the Clean Water Act |
| REL | Recommended exposure limit (NIOSH) |
| RT | Upper Respiratory Tract |
| Skin | (SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer) |
| SARA | Superfund Amendments and Reauthorization Act |
| STEL | Short Term Exposure Limit (15 minutes) |
| TC Lo | Lowest concentration that is toxic to a given species in a given time |
| TD Lo | Lowest dose that is toxic to a given species |
| TLV | Threshold Limit Value (ACGIH) |
| TP | California Toxic Pollutant under the Clean Water Act |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average (8 hours) |
| UEL | Upper Explosive Limit |

Buckley Oil Company

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