

MATERIAL SAFETY DATA SHEET

COMPANY NAME: Jarchem Industries, Inc.

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SECTION I - IDENTIFICATION

PRODUCT NAME: Jarcol I-12

DATE PREPARED: June 14, 2000 Reviewed May 24, 2007

SYNONYMS: Butyl Octanol; 2-Butyl-1-Octanol; Branched Alcohol

CHEMTREC: 800-424-9300

SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>Weight %</u>
2-Butyloctanol	3913-02-8	100

SECTION III - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Colorless, oily liquid. Odorless

HEALTH HAZARD: Low hazard for usual industrial handling. In high concentrations, vapor may cause irritation of the eyes, nose, and upper respiratory tract.

FIRE OR EXPLOSION: This product may burn, but will not ignite readily.

SPILL PRECAUTIONS: Do not discharge into drains, surface waters or groundwater.

POTENTIAL HEALTH EFFECTS

EYES: Exposure to vapors may be irritating to the eyes. Prolonged exposures may have corneal effects.

SKIN: Exposure does not cause significant irritation or toxicity. Physical irritation may occur as a result of prolonged contact.

INHALATION: In high concentrations, vapor may cause irritation of the nose and throat, dizziness and headache. Should not be a hazard at ambient temperatures.

INGESTION: Material is relatively non-toxic. Ingestion of small amounts may result in nausea and vomiting.

(See section for Toxicological Information)

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

SKIN: Remove contaminated clothing. Wash skin with soap and plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Oxygen should only be administered by trained personnel.

INGESTION: If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SECTION V - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT / METHOD: Approximately 248°F (120°C)

AUTO IGNITION TEMPERATURE: 491°F (255°C)

FLAMMABLE LIMITS IN AIR % BY VOLUME: LOWER: N/A UPPER: N/A

FIRE AND EXPLOSION HAZARD: None expected. NFPA Class IIIB combustible liquid.

EXTINGUISHING MEDIA: Water spray, foam, dry chemical, CO₂. Do not use a full force water jet.

FIRE FIGHTING INSTRUCTIONS: Cool exposed equipment with water spray until well after fire is out. Self contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: Eliminate all sources of ignition. Shut-off leak if safe to do. Dispose of only in accordance with local, state and federal regulations.

SMALL SPILLS: Absorb with sand or other noncombustible absorbent material and place into containers for later disposal.

LARGE SPILLS: Dike far ahead of liquid spill for recovery or disposal.

SPILL PRECAUTIONS: Do not discharge into drains, surface waters or groundwater.

CERCLA HAZARDOUS SUBSTNACE:

<u>COMPONENT</u>	<u>CERCLA RQ</u>	<u>MAXIMUM WT. %</u>
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Contains no chemicals on the CERCLA Hazardous Substance list.

SECTION VII - HANDLING AND STORAGE

ELECTROSTATIC ACCUMULATION HAZARD: Precautions should be taken to prevent electrostatic discharge.

USUAL SHIPPING CONTAINERS: Tank cars, Tank trucks, and drums.

STORAGE / TRANSPORT TEMPERATURE: Hot water system recommended for temperature control. Temperature should not be held at over 110°F (43°C) for long periods.

STORAGE / TRANSPORT PRESSURE: Ambient

LOAD / UNLOAD TEMPERATURE: 10-30°F above melting point.

STORAGE AND HANDLING MATERIALS:

TANKS: Carbon steel or stainless steel with effective moisture and oxygen control. Aluminum is not suitable for storage.

NOTE: Any moisture may cause rusting of carbon steel. Product contamination may result.

SPECIAL PRECAUTIONS: Inert gas blanket and breathing system needed to maintain color stability. Use dry inert gas having at least -40°F dew point.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical ventilation may be necessary if working with the product in enclosed areas or at elevated temperatures.

PERSONAL PROTECTIVE EQUIPMENT:

EYES: Safety glasses with side shields or chemical goggles.

SKIN: Full protective clothing; chemical boots, and chemical gloves when contact with liquid is possible.

RESPIRATORY PROTECTION: Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select the appropriate NIOSH-approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air-supplied respirators in situations where there may be potential for overexposure.

EXPOSURE GUIDELINES:

COMPONENT

OSHA PEL

ACGIH TLV

None Established

PEL: Permissible exposure limits
TLV: Threshold limit value

TWA= Time weighed average (8 hr)
STEL= Short term exposure limit (15 min)

CARCINOGENICITY: No carcinogenic ingredients.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless, oily liquid.

ODOR: Odorless

VAPOR PRESSURE (mm Hg): 10 mbar @243°F (117°C)
VOC content = 99.96% (EPA 24)

VAPOR DENSITY (AIR=1): N/A

VISCOSITY: approx. 23 mPas @ 68°F/20°C
11.91 cSt @ 104°F/40°C

PHYSICAL STATE: Liquid

BOILING POINT: 469°F (243°C)

MELTING POINT: <-22 (<-30°C)
-94°F (-70°C) Pour Point

SPECIFIC GRAVITY (H₂O=1): 0.831-0.835 @ 68°F/20°C

SOLUBILITY IN WATER: Insoluble

SECTION X – STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Can react with strong oxidizers, inorganic acids, and halogens.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

HAZARDOUS POLYMERIZATION: Should not occur.

SECTION XI – TOXICOLOGICAL INFORMATION

EYES: Primary Eye Irritation Index (Rabbits): 3.3 (Maximum score is 10).
Irritation was completely gone by day 3, the last day of observation.

SKIN: Primary Skin Irritation Index (Rabbits): 0.4 (Maximum score is 8.0).

INHALATION: So specific data available.

INGESTION: Acute Oral LD50 (Rat): 26.5 – 37.4 g/kg.

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No ecotoxicity data is available.

CHEMICAL FATE INFORMATION: No data available. Product is slightly soluble in water. It can largely be eliminated from water by abiotic processes, (e.g. mechanical separation).

SECTION XIII – DISPOSAL CONSIDERATIONS

SPECIAL INSTRUCTIONS: Dispose of in accordance with local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

WASTE CLASSIFICATION: Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification to hazardous. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 264) hazardous waste regulations.

EMPTY CONTAINERS: Empty containers retain product residue (liquid and/ or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconitioner, or properly disposed of.

SECTION XIV – TRANSPORT INFORMATION

DOT DESCRIPTION: This product is not a hazardous material according to DOT regulations for ground transportation.

ICAO / IATA DESCRIPTION: This product is not a dangerous good as defined by IATA for air transportation.

IMO DESCRIPTION (IMDG CODE): This product is not a dangerous good as defined by IMO in the IMDG Code for water transportation.

SECTION XV – REGULATORY INFORMATION

US FEDERAL REGULATIONS

OSHA HAZARD COMMUNICATION STANDARD CLASSIFICATION: Non-hazardous as defined by the OSHA Hazard Communication Standard.

TSCA INVENTORY LISTING:

<u>COMPONENT</u>	<u>CAS#</u>
2-Butyloctanol	3913-02-8

SARA 302 STATUS:

<u>COMPONENT</u>	<u>CAS#</u>	<u>MAX. Wt. %</u>
Contains no chemicals subject to SARA 302 reporting		

SARA 311/312 CLASSIFICATION:

Non hazardous according to SARA 311/312

SARA 313 CHEMICALS:

<u>COMPONENT</u>	<u>CAS#</u>	<u>MAX. Wt. %</u>
Contains no chemicals subject to SARA 313 reporting		

(See section 5 for CERCLA Reporting Requirements.)

INTERNATIONAL REGULATIONS

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM

(WHMIS) CLASSIFICATION: This material is not a controlled product as defined by Canada's Workplace Hazardous Materials Information System (WHMIS).

CANADIAN DOMESTIC SUBSTANCE LIST (DSL) INVENTORY LISTING:

<u>CHEMICAL NAME</u>	<u>CAS#</u>
2-Butyloctanol	3913-02-8

EUROPEAN INVENTORY OF EXISTING COMMERCIAL SUBSTANCES (EINECS) LISTING:

<u>CHEMICAL NAME</u>	<u>EINECS#</u>
2-Butyloctanol	2234700

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) INVENTORY LISTING:

<u>CHEMICAL NAME</u>	<u>SECTION STRUCTURE #</u>
Alkanol (C ₅₋₃₈)	2-237

AUTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) LISTING:

<u>CHEMICAL NAME</u>	<u>CAS#</u>
2-Butyloctanol	3913-02-8

EXPOSURE GUIDELINES

<u>COMPONENT</u>	<u>OSHA PEL</u>	<u>CAS#</u>
None Established		

PEL: Permissible Exposure Limits

TLV: Threshold Limit Value

TWA: Time Weighed Average (8 hr.)

STEL: Short Term Exposure Limit (15 min.)

CALIFORNIA SAFE DRINKING WATER ACT (PROP 65) LISTING:

<u>COMPONENT</u>	<u>CAS#</u>
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** No ingredientss listed in this scetion**

Based on current analytical information, this product contains no detectable quantities of chemicals on the California Proposition 65 list.

SECTION XVI – OTHER INFORMATION
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<u>HAZARD RATINGS</u>	<u>NEPA</u>	<u>HMIS</u>
Health	1	1
Flammability	1	1
Reactivity	0	0

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in the information is to be taken as a warranty or representation for which JARCHEM INDUSTRIES INC. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

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