BIOCONNECTIONS
BRINDLEY COURT
VICTORIA BUSINESS PARK
KNYPERSLEY
ST8 7PP
Tel 01782 516010 Fax 01782 510733

PRODUCT SAFETY DATA SHEET

1: IDENTIFICATION

Catalog Number/Product Name: CK9020, Kovac's Reagent.

Other Common Names: None

Recommended Use/Restrictions: For in-vitro diagnostic use only by trained professionals.

Manufacturer/Supplier:
BioConnections
Brindley Court
Victoria Business Park
Knypersley
ST8 7PP

Phone Number: 01782 516010

Emergency Phone Number: None available

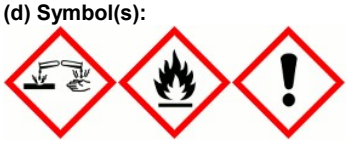
2: HAZARD(S) IDENTIFICATION

(a) Classification of the chemical:
Flammable liquids (Category 3), H226
Acute toxicity, Oral (Category 4), H302
Skin irritation (category 2), H315
Serious eye damage (Category 1), H318
Specific target organ toxicity – single exposure (Category 3), H335, H336

(b) Signal word:
Danger

(c) Hazard statement(s):
H226 – flammable liquid and vapour
H302 – harmful if swallowed
H315 – causes skin irritation
H318 – causes serious eye damage
H335 – may cause respiratory irritation
H336 – may cause drowsiness or dizziness

(d) Symbol(s):



(e) Precautionary statement(s):
P261 – avoid breathing dust / fume / gas / mist / vapours / spray.
P280 – Wear protective gloves / eye protection / face protection.
P305 + P351 + P358 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

(f) Describe any hazards not otherwise classified that have been identified during the classification process:
None

3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	Common Name/Synonym	CAS Number	Concentration (%)
Hydrochloric Acid	-	7647-01-0	<10%
N-Butanol	-	71-63-3	50-100%

4: FIRST-AID MEASURES

(a) Routes of Exposure:

Eyes: If splashed into eyes, rinse with water for 10 to 15 minutes. Keep eyelids open. Gently remove contact lenses if present and continue rinsing. If irritation persists, seek medical advice

Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Seek medical advice immediately. Contact poison control if necessary. If victim is conscious and alert, give 2 to 4 cupful's of milk or water. Never give anything by mouth to an unconscious person

Inhalation: Remove victim to fresh air. If not breathing begin artificial respiration and seek medical advice immediately

Skin: Wash off with warm water and soap. Get medical attention if irritation develops and persists. Avoid touching contaminated clothing.

(b) Important symptoms/effects(acute and delayed): Refer to information in sections 2C and 11

(c) Indication of immediate medical attention and special treatment needed: No data available. Contact poison control and/or a physician. Treat symptomatically and supportively

5: FIRE-FIGHTING MEASURES

(a) Suitable (and unsuitable) extinguishing media: Use alchohol resistant foam, carbon dioxide, dry powder or water fog.

(b) Specific hazards arising from the chemical: Flammable liquid, vapours my be ignite by spark or hot surface. Hydrogen chloride gas, Carbon oxides

(c) Special protective equipment and precautions for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6: ACCIDENTAL RELEASE MEASURES

(a) Personal precautions, protective equipment, and emergency procedures: Wear PPE and chemical resistant gloves. 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

(b) Methods and materials for containment and cleaning up: Avoid the spillage or runoff entering drains. Contain spillage with sand, earth or other suitable non-combustible material. Discard according to local regulations.

7: HANDLING AND STORAGE

(a) Precautions for safe handling: Wear appropriate PPE, avoid inhalation of vapour or mist. Keep away from sources of ignition

(b) Conditions for safe storage: Store according to label instructions. Store in a dry place not exceeding 25°C

8: EXPOSURE CONTROLS / PERSONAL PROTECTION

(a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical Name	CAS Number	Value	Control parameters	Basis
Hydrochloric Acid	7647-01-0	TWA	5 ppm 8 mg/m^3	EU. Commission directive 2000/39/EC establishing a first list of indicative exposure limit values.
		STEL	10 ppm 15 mg/m^3	EU. Commission directive 2000/39/EC establishing a first list of indicative exposure limit values.
		TWA	1 ppm 2 mg/m^3	UK. EH40 WEL – Workplace Exposure Limits
		STEL	5 ppm 8 mg/m^3	UK. EH40 WEL – Workplace Exposure Limits
N-Butanol	71-36-3	STEL	50 ppm 154 mg/m^3	UK. EH40 WEL – Workplace Exposure Limits
	Remarks	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		

(b) Appropriate engineering controls: Eye bath. Safety shower.

(c) Individual protection measures, such as personal protective equipment:
Eye Protection: Safety glasses with side-shields.

Ingestion: Do not swallow. Product may cause permanent damage to the digestive tract.

Inhalation: Ensure adequate ventilation, especially in confined spaces.

Skin and Hand Protection: Wear protective gloves, safety glasses and long sleeved clothing.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical State: Liquid.
Color: Clear yellow.
Odor: No data available
Odor Threshold: No data available.
pH: <1.0 at 20°C
Melting Point/Freezing Point: No data available
Boiling Point/Boiling Range: No data available
Flash Point: 36°C
Evaporation Rate: No data available.
Flammability: No information available.
Upper and Lower Flammability/Explosive Limits: No data available.
Vapor Pressure: No data available.
Vapor Density: No data available.
Relative Density: 0.920 g/cm^3
Solubility: No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition Temperature: No data available.
Decomposition Temperature: No data available.
Viscosity: No data available.

10: STABILITY AND REACTIVITY

(a) Reactivity: Not determined.

(b) Chemical stability: Stable under normal conditions.

(c) Possibility of hazardous reactions: Not determined

(d) Conditions to avoid (e.g., static discharge, shock, or vibration): Avoid moisture. Avoid heat, flames and sparks.

(e) Incompatible materials: Aluminium

(f) Hazardous decomposition products: Carbon oxides, hydrogen chloride gas generated under fire conditions.

11: TOXICOLOGICAL INFORMATION

Description of the various toxicological (health) effects and the available data used to identify those effects, including:

(a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): No data available.

(b) Symptoms related to the physical, chemical and toxicological characteristics: No data available.

(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure: No data available.

(d) Numerical measures of toxicity (such as acute toxicity estimates): No data available.

(e) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA: No data available.

12: ECOLOGOICAL INFORMATION

No data available.

13: DISPOSAL CONSIDERATIONS

Burn in a chemical incinerator equipped with an afterburner and scrubber, exert extra care in igniting as this material is highly flammable.
Dispose as clinical waste

14: TRANSPORT INFORMATION

DOT Hazard Class: Class 3 flammable liquid
Shipping name: Flammable liquid, N.O.S. (n-butanol)
Identification number: UN2924
Packing group: Group III

15: REGULATORY INFORMATION

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

16: OTHER INFORMATION

The above information, to the best of our knowledge, is accurate. BioConnections assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.

Revision Date: July, 2020