

# MATERIAL SAFETY DATA SHEET WELCO RINSE AID

## 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY:

**SUBSTANCE NAME:** WELCO RINSE AID

**APPLICATIONS:** CONNECT DISTRIBUTION SERVICES LTD.

**SUPPLIER:** McKLords Ltd

Bodelwyddan

Denbighshire. NORTH WALES. LL18 5SX

**EMERGENCY TEL:** 01745 585995 **FAX**: 01745 585755

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient Name</b>	EC No.	Cas. No.	Contents	Symbol	Risk (R No.)	
Isopropyl alcohol		67-63-0	<25%	F;Xi	R11, R36, R67	

The full text for all Risk Phrases (R No.) are shown in section 15.

### 3. HAZARD IDENTIFICATION

**Human health hazards:** Flammable, Irritating to the eyes and skin. Contact with skin and eyes

should be avoided.



#### 4. FIRST AID MEASURES

**Symptoms and effects:** Headache. Dizziness. Nausea. Narcosis. Dryness of the skin. Ingestion

may cause inebriation and coma. Irritation of the skin, eyes and

repiratory tract.

Eye Contact Flush eye with water. If persistent irritation occurs, obtain medical

attention.

**Skin Contact** Wash promptly with soap and water if available. If persistent irritation

occurs, obtain medical attention.

**Inhalation** Remove person to fresh air. If rapid recovery does not occur, obtain

medical attention.

**Ingestion** DO NOT induce vomiting. If rapid recovery does not occur, obtain

medical attention. Give water to drink, providing patient is conscious.

**Advice to physicians:** Dermatitis may result from prolonged or repeated exposure. May cause

central nervous system depression.

#### **5. FIRE FIGHTING MEASURES**

**Specific hazards:** Hazardous combustion products may include carbon monoxide. The

vapour is heavier than air, spreads along the ground and distant ignition

is possible.

**Extinguishing Media:** Alcohol resistant foam, water spray or fog. Dry chemical powder, carbon

dioxide, sand or earth may be used for small fires only.

**Unsuitable extinguishing media:** Water in a jet.

**Protective equipment:** Full protective clothing and self contained breathing apparatus.

**Other information:** Keep adjacent containers cool by spraying with water.

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## **6. ACCIDIENTAL RELEASE MEASURES:**

Personal precautions: Avoid contact with skin and eyes. Ventilate contaminated area

thoroughly. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk.

Personal protection: Wear PVC, neoprene, or nitrile rubber gloves, PVC one-piece suit with

integral hood, safety boots, rubber, knee length. Wear full face-piece respirator with organic vapour canister NPF 400. In a confined space, wear self-contained breathing apparatus open circuit type NPF 2000.

Environmental precautions: Prevent contamination of soil and water. Prevent from spreading or

entering into drains, ditches or rivers by using sand, earth, or other

appropriate barriers.

Clean-up methods - small spillage: Absorb or contain liquid with sand, earth or spill control material. Shovel

up and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum. Flush contaminated area with plenty of water. Retain washings as contaminated

waste.

Clean-up methods - large spillage: Transfer to a labelled, sealable container for product recovery or safe

disposal. Treat residues as for small spillage.

Other information: Risk of explosion. Inform the emergency services if liquid enters surface

water drains. Vapour may form an explosive mixture with air. See

section 13 for information on disposal.

#### 7. HANDLING AND STORAGE

Handling: Avoid prolonged or repeated contact with skin. Extinguish any naked

flames. Remove ignition sources. Avoid sparks. Do not smoke. Take precautionary measures against static discharges. Earth all equipment. Do

not empty into drains.

Handling temperatures: Ambient.

Storage: Tanks should be fitted with a vapour recovery system. Keep away from

direct sunlight and other sources of heat or ignition. Do not smoke in storage areas. Keep container tightly closed and in a well-ventilated

place.

Storage temperatures: Ambient.

Product transfer: Take precautionary measures against static discharges. Earth all e

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quipment. Avoid splash filling.

Recommended materials: For containers or container linings, use mild steel or stainless steel. For

container paints, use zinc silicate. If diluted with de-ionised water, steel

containers may be unsuitable.

Unsuitable materials: Most plastics, aluminium if > 50C, neoprene rubber.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Occupational exposure standards:

Component nameLimit typeValueUnitOther informationIsopropyl alcoholTLV/TWA999mg/m3(400ppm for 8 hours)STEL1250mg/m3(500ppm for 15 mins)

Respiratory protection: No specific measures.

Eye protection: Monogoggles.

Body protection: Standard issue work clothes. Safety shoes or boots - chemical resistant.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid at ambient temperature.

Colour: Clear.

Odour: Characteristic.

Initial boiling point: 82°C Final boiling point: 83°C Melting point: -90°C

Vapour pressure: 4.3kPA @ 20°C

Density: 785 kg/m3 @ 20°C

Dynamic viscosity: 2.43 mPa.s @ 20°C

Vapour density (air = 1):  $2.0 @ 20^{\circ}C$ 

Conductivity: 6 pS/m x 106 @ 20°C

Flash point: 12°C (Abel)
Explosion limit - upper: 12% (v/v)
Explosion limit - lower: 2% (v/v)
Auto-ignition temperature: 425°C
Solubility in water: Complete.
n-octanol/water partition coefficient: < 3 log POW

Evaporation rate: (relative) 1.5 (n-Bu.Ac=1).

10. STABILITY AND REACTIVITY:

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Stability: Stable under normal conditions. Reacts with strong oxidising agents. Reacts with

strong acids.

Conditions to avoid: Heat, flames and sparks.

Materials to avoid: Strong oxidising agents. Strong acids.

Hazardous Decomposition Products: None Known.

#### 11.TOXICOLOGICAL INFORMATION:

Basis for assessment: Information given is based on product data.

Acute toxicity - oral: LD50 > 2000 mg/kg

Acute toxicity - dermal: LD50 > 2000 mg/kg

Acute toxicity - inhalation: LC50 > 5 mg/l

Eye irritation: Slight irritant.

Skin irritation: Slight irritant.

Respiratory irritaion: Irritant in animal studies.

Skin sensitisation: May cause skin sensitisation.

(Sub) chronic toxicity: Repeated exposure causes liver damage.

Human effects: Repeated exposure can lead to allergic contact dermatitis. High exposures can

cause drowsiness and dizziness. Can cause liver damage.

## **12.ECOLOGICAL INFORMATION**

Basis for assessment: Information is given on product data.

Mobility: Dissolves in water. Lost within a day by evaporation and dissolution. Large volumes may penetrate

soil and could contaminate groundwater.

Persistence/Degradability: Readily biodegradable. Oxidises rapidly by photochemicals in air.

Bio-accumulation: Does not bio-accumulate.



Acute toxicity - fish: LC50 > 100 mg/l

Acute toxicity - daphnia: EC50 > 100 mg/l

Acute toxicity - algae: IC50 > 100 mg/l

Acute toxicity - bacteria: IC50 > 100 mg/l

Sewage treatment: Practically non-toxic, EC50 > 100 mg/l, to organisms in sewage treatment

plants.

Other information: Poses a significant risk of oxygen depletion in aquatic systems.

## 13.DISPOSAL CONSIDERATIONS.

Precautions: Refer to Section 7 before handling the products or containers.

Waste disposal: Recover or recycle if possible. Otherwise incineration.

Product disposal: Recover or recycle if possible. Otherwise incineration.

Container disposal: Drain container thoroughly. After draining, vent in a safe place away from

sparks and fire. Send to drum recoverer or metal reclaimer. Residues may cause

an explosion hazard. Do not puncture, cut or weld uncleaned drums.

Dispose of in accordance with local authority regulations.

#### **14. TRANSPORT INFORMATION:**

US Number: 1219 UN Class/Packing Group: 3/II

U.N. Proper shipping name: ISOPROPANOL (Isopropyl alcohol)

UN Number (sea transport, IMO): 1219 IMO Class/Packing Group: 3.2/II

IMO Symbol: Flammable liquid

IMO Marine pollutant: No

IMO Proper shipping name: ISOPROPANOL (Isopropyl alcohol)

ADR/RID Class/Item: 3/3b

ADR/RID Symbol: Flammable liquid

ADR/RID Kemler number: 33/1219

ADR/RID Proper shipping name: ISOPROPYL ALCOHOL

UN Number (air transport, ICAO): 1219 IATA/ICAO Class/Packing Group: 3/II

IATA/ICAO Symbol: Flammable liquid

IATA/ICAO Proper shipping name: ISOPROPANOL (Isopropyl alcohol)



## 15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:





FLAMMARI.E

IRRITANT

EC Label name: Isopropanol

EC Classification: Highly flammable

EC Symbols: F, Xi

EC Safety phrases: S7 Keep container tightly closed

S16 Keep away from sources of ignition - no smoking.

R-phrase(s): R11: Highly Flammable

R36: Irritating to eyes

R67: Vapours may cause drowsiness or dizziness

EINECS (EC): 200-661-7

EC Annex I Number: 603-003-00-0

## **16. OTHER INFORMATION:**

This document is produced as a guide only. A good standard of industrial hygiene should always be employed with all substances used in the work place. Always ensure that the inside of gloves or clothing do not become saturated and work allowed to continue, especially with acidic and alkaline products, as serious skin damage could result.

To comply with our continuing Quality Policy we reserve the right to change any specifications deemed appropriate, or to conform to alterations under the Health and Safety Act.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.