

### MATERIAL SAFETY DATA SHEET

Date / Revised: 25/03/2020

Product Name: BCB Hand Sanitiser Gel

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: BCB Hand Sanitiser Gel
Product No. CL900, CL901, CL902, CL903

Product Application Alcohol gel hand sanitiser. Use in accordance with product

instructions.

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#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008

One or more of the substances in this product feature the following hazards as a raw material:

Flammable liquid and vapour (Category 2), H226

Eye irritant (Category 2), H319

STOT single exposure (Category 3), H336

For the full text of the H-statements mentioned in this section, see section 16.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

Pictogram

**⋄**❖

Signal word Warning

Hazard statement(s)

H226 Flammable liquid and vapour
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statement(s)

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P101 If medical advice is needed, have product container or label

at hand.

P103 Read label before use

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P261 Avoid breathing vapours.

P271 Use only outdoors or in a well-ventilated area.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

For full list of precautionary statements, see section 16.

Supplemental hazard statements

#### 2.3 Other hazards

This product is highly flammable. With container open, explosive vapour/air may be formed even at normal room temperatures.

During combustion/fire, the product becomes molten and exhibits flow.

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No.	EC No.	Content (%)	Classification acc. to Regulation (EC) No 1272/2008
Ethanol, denatured	64-17-5	200-578-6	80-85	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319)

The full text for all H-statements are given in section 16.

#### **SECTION 4: FIRST-AID MEASURES**

#### 4.1 **Description of first aid measures**

General Rest, warmth and fresh air. Seek medical attention if symptoms persist. Advice

Show this safety data sheet to the physician in attendance. Never give

an unconscious person anything by mouth.

Inhalation Remove to fresh air and rest. If not breathing, give artificial respiration.

If symptoms persist, seek medical attention.

Ingestion Do NOT induce vomiting. Rinse mouth immediately and give plenty of

water or milk to drink. If symptoms persist, seek medical attention.

Never give an unconscious person anything by mouth.

Remove contaminated clothing. Wash affected area with soap and Skin contact

water.

Flush with water for at least 15 minutes. Remove contact lenses if Eye contact

present and safe to do. Avoid washing chemical from one eye into the

other. Ensure to rinse thoroughly under the eyelid. If symptoms persist, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed.

Inhalation May cause respiratory irritation. May cause drowsiness,

dizziness and/or headaches.

Ingestion Gastrointestinal symptoms; nausea, upset stomach,

vomiting.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact Irritation may occur, causing redness and pain.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### 5.1 Extinguishing Media

Suitable extinguishing media Alcohol-resistant foam, dry powder, carbon dioxide,

water fog and sand.

**Unsuitable extinguishing media** Do not use high-pressure water jets.

5.2 Special hazards arising from the

mixture

Carbon oxides, nitrogen oxides (NO<sub>x</sub>) and oxides of sodium may be produced during combustion.

Product may produce vapour which may be invisible, heavier than air and spread along the ground. During combustion, solid fuel will become molten and exhibit flow. Vapours may form explosive mixtures with air.

Flash-back possible over some distance.

**5.3** Advice for firefighters Wear self-contained breathing apparatus. Wear full-

protective gear if necessary. Keep containers cool with water spray. Water run-off or discharge should not

enter drains.

**5.4 Further information** No information available.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 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** Ensure waste and contaminated materials are collected and

removed from the work area as soon as possible in a suitably labelled container. Do not allow water run-off or discharge to

enter drains or environment.

# 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Collect waste absorbent with either an electrically protected vacuum

absorbent with either an electrically protected vacuum cleaner or by wet-brushing. Wash area thoroughly with water

after.

6.4 Reference to other

sections

See section 1 for emergency contact information. See section 8 for personal protective equipment. See section 13 for waste treatment information.

SECTION 7:	HANDLING AND	STORAGE
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## 7.1 Precautions for safe handling

Avoid skin and eye contact. Avoid spillages. Avoid inhalation of vapour or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the build-up of electrostatic charge. If left exposed, flammable and irritating vapours will be emitted. Ensure adequate ventilation. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Keep container closed in a well-ventilated place. Keep away from direct sunlight and sources of heat or ignition. Do not store with oxidising agents.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other end

uses are stipulated.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 Control Parameters

# Components with workplace control parameters

Due to the nature of the product, workplace exposure limits are unlikely to be exceeded. The product has not been tested for workplace exposure limits when used as stipulated in section 1.2.

One or more component exhibits workplace exposure limits as a raw material, as below: Ethanol EH40 WEL, TWA – 8h 1,000ppm, 1,920mg/m<sup>3</sup>

ELV (IE), STEL 1,000ppm

8.2 Exposure Controls

Appropriate engineering

controls

Provide adequate to ensure the defined work place

exposure limits are not exceeded.

Personal protective equipment

Skin Where possible, wear suitable gloves. As the product is a mixture of protection several substances, the durability of the glove material cannot be

calculated in advance and should be tested before use. Protective gloves should be replaced is damaged or otherwise compromised through wear

and tear. Protective gloves should comply with EN 374.

Eye/face Contact lenses should be avoided when working with this product. Safety protection

glasses, when worn, should comply with EN 166.

**Body** Due to the nature/size of the product, specific clothing is not usually necessary. Impervious clothing, Flame-retardant antistatic protective protection

clothing may be worn when handling large quantities.

Respiratory Due to the nature of the product, no personal respiratory protective protection equipment is normally required in well ventilated areas. In case of

insufficient ventilation, wear suitable respiratory aid equipment. A Type A

filter is recommended and mask to EN 143

**Control of** environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product

enter drains.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Gel, colourless. Usually translucent, sometimes opaque Appearance

Odour Alcoholic

8 Hq Melting/freezing point N/A Initial boiling point 75°C

Flash point 10.5°C (Cleveland open cup; BS EN ISO 2592:2001)

Upper explosion limit 19% (V) Lower explosion limit 3.3% (V) Vapour pressure 5.85kPa (20°C) No data available **Flammability** Relative density  $0.84g/cm^{3}(20^{\circ}C)$ 

Water solubility Soluble in water (20°C)

Auto-ignition temperature 363°C

Decomposition temperature No data available Viscosity No data available Oxidising properties No data available

**Explosive properties** Formation of explosive air/vapour mixtures is possible.

Gross calorific value 29MJ/kg (approx.)

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity Stable under recommended storage conditions.

10.2 **Chemical stability** Stable under recommended storage conditions.

10.3 **Possibility of hazardous** No data available.

reactions

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10.4	Conditions to avoid	Heat, flames, sparks, extremes of temperature and direct sunlight.
10.5	Incompatible materials	Alkali metals, ammonia, oxidising reagents, peroxides.
10.6	Hazardous decomposition products	Other decomposition products – no data available. In the event of fire, see section 5.

#### **SECTION 11: TOXILOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

Acute toxicity To	c Dose – $LD_{50} > 2000 \text{ mg/kg (oral rat)}$
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Toxic Concentration –  $LC_{50} > 20 \text{ mg/l (4hr mouse)}$ 

**Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation

Causes serious eye irritation. May cause redness and pain.

Respiratory damage/irritation

May cause mechanical respiratory irritation. May cause

drowsiness, dizziness and/or headaches.

**Ingestion** Gastrointestinal symptoms; nausea, upset stomach and/or

vomiting.

Respiratory or skin sensitisation

No data available.

**Germ cell mutagenicity** No data available.

**Carcinogenicity** No data available.

IARC: No component of this product present at levels greater than

or equal to 0.1% is identified as probably, possible or

confirmed human carcinogen by IARC.

**Reproductive toxicity** No data available.

Specific target organ toxicity – single exposure

Ethanol is a CNS depressant. Exposure to vapours may cause

dizziness, drowsiness and/or headaches.

Specific target organ

toxicity – repeated exposure

No data available. Similar symptoms to STOT – single

exposure may occur.

**Aspiration hazard** No data available.

The chemical, physical and toxicological properties have not been thoroughly investigated for this product.

Values presented are based on available literature. No testing was carried out for this product.

#### **SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**  $LC_{50}$ : > 100 mg/l (96 hrs, Fish)

EC<sub>50</sub>: > 100 mg/l (48 hrs, Daphnia) IC<sub>50</sub>: > 100 mg/l (72 hrs, Algae)

12.2 Persistence and

degradability

No data available.

**12.3 Bioaccumulative potential** No data available.

**12.4 Mobility in soil** No data available.

12.5 Results of PBT and vPvB

assessment

PBT and vPvB assessment not available as chemical safety assessment not required, not conducted. No component of

this product is deemed PBT or vPvB

**12.6** Other adverse effects Will dissolve and disperse in an aqueous environment. Do not

flush into surface water or sanitary sewer system. Avoid

subsoil penetration.

Values presented are based on available literature.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

**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 product

to a licensed hazardous waste disposal company. Any material used to control spillage must be disposed of in the same way. Dispose of in accordance to local and national

regulations.

**Contaminated packaging** Empty contaminated packaging thoroughly. This can be

recycled after thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as

the product.

#### **SECTION 14: TRANSPORT INFORMATION**

One or more of this product's components are classified as dangerous good for transportation by ADR/RID, IMDG or IATA. Available information and product testing allows determination of dangerous goods transport class for this product.

#### 14.1 UN number

ADR/RID 1170 IMDG 1170 IATA 1170

14.2 UN proper shipping name

ADR/RID Ethanol solution (ethyl alcohol)
IMDG Ethanol solution (ethyl alcohol)
IATA Ethanol solution (ethyl alcohol)

14.3 Transport hazard class(es)

ADR/RID Class 3: Flammable liquid Class 3: Flammable liquid IATA Class 3: Flammable liquid

Packing label



14.4 Packing group

ADR/RID III
IMDG III
IATA III

14.5 Environmental hazard

ADR/RID No IMDG No IATA No

14.6 Special precautions for

user

No data available.

#### **SECTION 15: REGULATORY INFORMATION**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Take note of regulation (EC) 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Take note of the control of substances hazardous to health (COSHH) regulations, 2002. Take note of directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of directive 92/85/EEC on the protection of the health and safety of pregnant workers.

Take note of directive 94/33/EC on the protection of young people at work Take note of workplace exposure limits, 2005 (EH40)

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

#### **SECTION 16: OTHER INFORMATION**

Full text of H-statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour H319 Causes serious eye irritation

#### Full text of P-statements referred to under section 2.

P101	If medical advice is needed, have product container, or label at	
	hand.	
P102	Keep out of reach of children.	
P103	Read label before use.	
P210	Keep away from heat, hot surfaces, sparks, open flames and other	
	ignition sources. No smoking.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/light/equipment.	
P261	Avoid breathing vapours.	
P264	Wash hands thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face	
	protection.	
P304 + P340 + P312	IF INHALED: remove victim to fresh air and keep at rest in a	
	position comfortable for breathing. Call a POISON CENTRE or	
	doctor/physician if you feel unwell.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.	
	Remove contact lenses, if present and easy to do. Continue	
	rinsing.	
P337 + P313	If eye irritation persists get medical advice/attention.	
P370 + P378	In case of fire: Alcohol resistant foam, Dry Powder, Carbon	
	Dioxide, Water Fog, Sand.	
P501	Dispose of container/packaging in accordance with local	
	regulations on waste disposal.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

#### Acronyms

STOT	Specific-target organ toxicity.
STEL	Short-term exposure limit.
TWA	Time-weighted average.

Lethal concentration - concentration at which 50% of the

population is killed.

LD<sub>50</sub> Lethal dose – dose at which 50% of the population is killed in a

given period of time.

IC<sub>50</sub> Inhibitor concentration – concentration of an inhibitor where the

response/binding is reduced by half.

IARC International agency for research on cancer.

ADR/RID European agreement concerning the international carriage of

dangerous goods by road and railway.

IMDG International maritime dangerous goods code.

IATA International air transport association.
PBT Persistent, bioaccumulative and toxic.
vPvB Very persistent, very bioaccumulative.

#### **Further information**

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling this product. This information is believed to be reliable and

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correct at the Revision Date, and represents the best information currently available and known by BCB International Ltd. However, BCB International Ltd makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability, and anticipated uses is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using the material.

Version: 2

Reason for update: Updated product codes.