



## Safety Data Sheet

According to UN GHS

Date of Issue: 30/06/2022 Revision Date 30/06/2022 | Version 6.0

Product name

# BONDING LIQUID (CV1 14)



## SECTION 1: IDENTIFICATION

**GHS product identifier** : Bonding Liquid (CVI 14)

**Other means of identification** : A transparent green matt resin based binding agent.

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : For interior and exterior use. For use on cement, gypsum plaster, porous brick, concrete and friable masonry. Recommended for use on cleaned surfaces which were previously lime washed, loose and friable surfaces and under-bound masonry surfaces as a binding agent. For use on excessively porous surfaces such as gypsum plaster as a sealer coat prior to application of the undercoat or topcoat.

**Restrictions of use** : Do not use in areas / substrates other than specified for in identified uses / TDS.

**Supplier's details** : Kansai Plascon (Pty) Ltd  
P.O. Box 4010  
Luipaardsvlei  
1743

**Emergency phone** : +2711 951 4500 (within hours of operation)  
**Cell phone** : +2783 991 5782 (outside hours of operation)  
**Facsimile** : +2711 955 2841  
**National Contact Person** : Misheck Mundondo

## SECTION 2: HAZARDOUS IDENTIFICATION

### Classification of the substance or mixture

: FLAMMABLE LIQUID - Category 3  
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE  
- Category 3  
SPECIFIC TARGET ORGAN TOXICITY REPEATED  
EXPOSURE - Category 2  
ASPIRATION HAZARD - Category 1

### Label elements according to

: UN GHS

### Hazard pictograms



### Signal word

: Danger

### Hazard statements

: H226 - Flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H336 - May cause drowsiness or dizziness.  
H373 - May Cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

#### General

: P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.

### Prevention

: P210 - Keep away from heat/sparks/open flames/hot surfaces.  
- No smoking.  
P233 + 235 - Keep container tightly closed. Keep cool.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
P242 - Use non-sparking tools.  
P243 - Take action to prevent static discharge.  
P260 - Do not breathe dust/fumes/gas/mist/vapours/spray.  
P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, eye protection or face protection.  
P284 - In case of inadequate ventilation wear respiratory protection.

#### Response

: P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P370+378 - In case of fire: Use fire extinguisher.

#### Storage

: P402+404 - Store in a dry place. Store in a closed container.  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.

#### Disposal

: P501 - Dispose of contents/containers in accordance with local regulation

#### Other hazards which do not result in classification

: None identified.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Other means of identification : A transparent green matt resin based binding agent.

#### CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	CAS number	%	SANS 10234 Classification
Solvent naphtha (petroleum), medium aliph.	64742-88-7	50.0-55.0	Asp.Haz.1, H304 STOT RE 2, H373
Solvent naphtha (petroleum), heavy arom.	64742-94-5	15.0-20.0	Asp.Haz.1, H304
n-butyl acetate	123-86-4	5.0-10.0	Flam. Liq. 3, H226 STOT SE 3, H336



There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

#### SECTION 4: FIRST AID MEASURES

##### Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation persist.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Remove contaminated clothing and shoes. Wash contaminated skin with soap or a recognised skin cleaner and plenty of water. Avoid the use of solvents. Get medical attention if symptoms persist. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Remove victim to fresh air and keep at rest in a position Comfortable for breathing. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe.

##### Most important symptoms/ effects, acute and delayed

###### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: No data available.
Inhalation	: No data available.
Skin contact	: No data available.
Ingestion	: May be fatal if swallowed and enters airways.

**Indication of immediate medical attention and special treatment needed, if necessary**

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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Specific treatments	: No specific treatment.
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Protection of first-aiders	: No action shall be taken involving any personal risk or without Suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
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See toxicological information (Section 11)

**SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire such as dry powder, CO <sub>2</sub> , water spray (fog) or foam. Use fog to cool and control.
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Unsuitable extinguishing media	: Do not use water jet.
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Specific hazards arising from the chemical	: Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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Hazardous thermal  
decomposition products

: Decomposition products may include the following materials  
carbon dioxide  
carbon monoxide  
nitrogen oxides

Special protective actions  
for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective  
equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For non-emergency  
personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

- Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose via a licensed waste disposal contractor.
- Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

- : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Do not reuse container.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

Ingredient name	Exposure limits
Solvent naphtha (petroleum), medium aliph.	<b>ACGIH (US):</b> STEL: 200 ppm TWA: 100 ppm
Solvent naphtha (petroleum), heavy arom.	<b>ACGIH (US):</b> TWA: 100 ppm TWA: 525 mg/m <sup>3</sup>
n-butyl acetate	<b>OHSA:</b> TWA: OEL-RL 200 ppm; 950 mg/m <sup>3</sup> STEL: OEL-RL 250 ppm; 1190 mg/m <sup>3</sup>

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure  
controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Avoid direct contact. Never touch eyes with dirty hands or gloves. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary e.g. in case of insufficient ventilation. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Colour	: Green
Odour (Threshold)	: No data available
Melting point	: Not applicable
Boiling point	: 140°C
Flammability (gas, liquid, solid)	: No data available
Lower and upper explosive (flammable) limits	: No data available
Flash point	: 35°C
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
pH	: Not applicable
Viscosity (Ford 4 Cup)	: 10 – 12 sec. (typical)
Solubility	: Insoluble in water
Partition coefficient, n-octanol/water	: No data available
Evaporation rate	: No data available
Vapour pressure	: No data available

Relative density : 0.85g/ml (typical)

Vapour density : No data available

Particle characteristics : No data available

## 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 conditions.

Possibility of hazardous reactions: : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No data available

Incompatible materials : Strong acids and oxidizing agents.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), medium aliph.	LD50 Oral	Rat	>2000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LC50 Inhalation	Rats	<20 m/l	4 hours
n-butyl acetate	LD50 Dermal	Rabbit	>14.112 mg/kg	-
	LC50 Inhalation	Rat	>21 mg/l	4 hours
	LD50 Oral	Rat	10760 mg/kg	

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Solvent naphtha (petroleum), medium aliph.	Skin - Irritation Eye - Irritation	Rabbit Rabbit	<6 <15	- -	Mild irritant Moderate irritant
Solvent naphtha (petroleum), heavy arom.	Skin - Irritation Eye - Irritation	Rabbit Rabbit	<6 <15	- -	Mild irritant Moderate irritant
n-butyl Acetate	Skin - Irritation Eye - Irritation	Rabbit Rabbit	- -	4 hours -	Not irritant Not irritant

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target Organs
Solvent naphtha (petroleum), medium aliph.	Category 3	Not determined	Not determined
n-butyl Acetate	Category 3	Not determined	Not determined

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target Organs
Solvent naphtha (petroleum), medium aliph.	Category 2	Not determined	Not determined

#### Aspiration hazard

Name	Result
Solvent naphtha (petroleum), medium aliph.	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Inhalation, skin and eye contact.

#### Potential acute health effects

Eye contact : No known significant effects or critical hazards.  
Inhalation : No known significant effects or critical hazards.  
Skin contact : No known significant effects or critical hazards.  
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No data available.  
Inhalation : No data available.  
Skin contact : No data available.  
Ingestion : May be fatal if swallowed and enters airways.

Potential Chronic health effects

General : May Cause damage to organs through prolonged or repeated exposure.  
Carcinogenicity : No known significant effects or critical hazards.  
Mutagenicity : No known significant effects or critical hazards.  
Teratogenicity : No known significant effects or critical hazards.  
Developmental effects : No known significant effects or critical hazards.  
Fertility effects : No known significant effects or critical hazards.

Acute toxicity estimates

No data available

## SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Product/Ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), medium aliph.	Acute LC/EC50 8.1 mg/l Acute LC/EC50 6 mg/l Acute LC/EC50 9.4 mg/l	Fish - Salmon Aquatic - Daphnia magna Algae - Green algae	96 hours 48 hours 8 hours
n-butyl Acetate	Acute LC50 18 mg/l Acute EC50 44 mg/l Acute EC50 674,7 mg/l	Fish - Pimephales promelas Organic - Daphnia magna Algae - Desmodesmus	96 hours 48 hours 72 hours

Persistence and degradability

Name	Aquatic half-life	Photolysis	Biodegradability
n-butyl Acetate	aerobic - Exposure time 28 days	-	83 % Readily biodegradable

Bioaccumulative potential

No data available

Mobility in soil

Soil/ water partition coefficient (KOC) : No data available.




Mobility : No data available.  
PBT/vPvB data : P: No data available.  
B: No data available.  
T: No data available.

Other adverse effects : No known significant effects or critical hazards.

### SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: TRANSPORT INFORMATION

	Transportation - road - SANS 10228:2012	Transportation- Maritime - IMO/ IMDG	Transportation- Air – IATA
UN number	1263	1263	1263
UN proper shipping name	Paint related material	Paint related material	Paint related material
Transport hazard class(es)	3 	3 	3 
Packing group	III	III	III
Environmental Hazards	Environmentally hazardous	Marine pollutant	Environmentally hazardous
Additional information	No data available	<b>Emergency schedules (EmS)</b> F-E, S-E	<b>Passenger and Cargo Aircraft Ltd QTY:</b> Quantity limitation: 1 L Packaging instructions: Y341 <b>Passenger and Cargo Aircraft:</b> Quantity limitation: 5 L Packaging instructions: 353 <b>Cargo Aircraft Only:</b> Quantity limitation: 60 L Packaging instructions: 364
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	No data available	No data available	No data available

## SECTION 15: REGULATORY INFORMATION

Safety, health and  
environmental regulations  
specific for the product

: Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances. Relevant information regarding restrictions: None known. EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC Other National regulations: None. Standards used for PPE recommendations in Section 8: NIOSH-National Institute for Occupational Health and Safety (USA) EN 166 European standard which concerns the area of eye protection. EN 374-3 European standards for permeation and penetration. EN 141/EN 143 European standards for gas mixtures to remove specified gases and vapours or combined filters for removing solids, and/or liquid particles and specified gases and vapours.

## SECTION 16: OTHER INFORMATION

### History

Date of review : 30/06/2022

Date of review	Version	Amendments
30/06/2022	6.0	GHS Purple Book version 9 alignment
15/10/2020	5.0	GHS compliant SDS
23/11/2018	4.0	-

Date of previous issue :15/10/2020

Key to abbreviations

: ATE = Acute Toxicity Estimate  
BCP Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OHSA = Occupational Health and Safety Act, 1993 (South Africa)  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
UN = United Nations

References

: Supplier Safety Data Sheets.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.