



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
SafeWork Australia Approved Code of Practice about the preparation of safety data sheets for
hazardous chemicals (July 2018), which is an approved code of practice under section 274 of the Work
Health and Safety Act

Issuing Date 14-Oct-22 Revision Date 14-Oct-22 Revision Number 1

Section 1: Identification

Product identifier

Product Name Rubber Solution Glue (PCA 005)

Other means of identification

Proper shipping name ADHESIVES SOLUTION

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Adhesives

Uses advised against None known

Details of manufacturer or importer

<u>Importer</u> <u>Manufacturer</u>

Sysmex Australia Pty Ltd Cytocell Ltd., Oxford Gene Technology Suite 3, Level 5 418 Cambridge Science Park, Milton Road,

15 Talavera Rd Cambridge

Macquarie Park CB4 0PZ, United Kingdom NSW 2113 T: +44 (0)1223 294048 F: +44 (0)1223 294986 probes@cytocell.com

For further information, please contact

Contact Point Product Safety Department

Emergency telephone number

Emergency telephone number For medical advice (English): 13 11 26 (Poisons Information Centre)

Section 2: Hazard(s) identification

GHS Classification

Flammable liquids	Category 2
Aspiration hazard	Category 1
Skin corrosion/irritation	Category 2

Specific target organ toxicity — single exposure

Category 3

Revision Date: 14-Oct-22

Label elements

Flame Exclamation mark



Signal word

Danger

Hazard statements

Highly flammable liquid and vapour Causes skin irritation May cause drowsiness or dizziness May be fatal if swallowed and enters airways

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapours/spray

Use only outdoors or in a well-ventilated area

Ground and bond container and receiving equipment

Use non-sparking tools

Take action to prevent static discharges

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Wear protective gloves/protective clothing/eye protection/face protection

Keep cool

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of water and soap

If skin irritation occurs: Get medical advice/attention

Take off all contaminated clothing and wash it before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTRE or doctor if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

May be harmful in contact with skin.

May be harmful if inhaled.

Section 3: Composition/information on ingredients

Chemical name	CAS No	Weight-%
n-Heptane	142-82-5	60-90

SDSGLUE AUS V001 Page 2/12

Ethanol	64-17-5	10-40
Non-hazardous ingredients	Proprietary	Balance

Section 4: First aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Emergency telephone number Poisons Information Centre, Australia: 13 11 26

Inhalation Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed

Revision Date: 14-Oct-22

pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Get immediate medical advice/attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin.

eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

Indication of any immediate medical attention and special treatment needed

Note to doctorsBecause of the danger of aspiration, emesis or gastric lavage should not be used unless

the risk is justified by the presence of additional toxic substances.

Section 5: Firefighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Foam.

Unsuitable extinguishing mediaDo not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Highly flammable liquid and vapour. Vapours are heavier than air and may spread along floors.

SDSGLUE AUS V001 Page 3/12

Hazardous combustion products Carbon oxides.

Special protective actions for fire-fighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Revision Date: 14-Oct-22

Hazchem code •3YE

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Evacuate personnel to safe areas. Use personal protective

equipment as required. See section 8 for more information. Avoid breathing vapours or mists. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch

or walk through spilled material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand

or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labelled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage

Precautions for safe handling

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. In case of insufficient

ventilation, wear suitable respiratory equipment.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

SDSGLUE AUS V001 Page 4/12

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

Revision Date: 14-Oct-22

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

Incompatible materials Strong oxidising agents.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits

Chemical name	Australia	New Zealand	ACGIH TLV
n-Heptane	TWA: 400 ppm	TWA: 400 ppm	STEL: 500 ppm
142-82-5	TWA: 1640 mg/m ³	TWA: 1640 mg/m ³	TWA: 400 ppm
	STEL: 500 ppm	STEL: 500 ppm	
	STEL: 2050 mg/m ³	STEL: 2050 mg/m ³	
Ethanol	TWA: 1000 ppm	TWA: 1000 ppm	STEL: 1000 ppm
64-17-5	TWA: 1880 mg/m ³	TWA: 1880 mg/m ³	

Chemical name	European Union	United Kingdom	Germany MAK
n-Heptane	TWA: 500 ppm	TWA: 500 ppm	TWA: 500 ppm
142-82-5	TWA: 2085 mg/m ³	TWA: 2085 mg/m ³	TWA: 2100 mg/m ³
		STEL: 1500 ppm	Peak: 500 ppm
		STEL: 6255 mg/m ³	Peak: 2100 mg/m ³
Ethanol	-	TWA: 1000 ppm	TWA: 200 ppm
64-17-5		TWA: 1920 mg/m ³	TWA: 380 mg/m ³
		STEL: 3000 ppm	Peak: 800 ppm
		STEL: 5760 mg/m ³	Peak: 1520 mg/m ³

Biological occupational exposure

limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Hand protection Wear suitable gloves. Impervious gloves.

SDSGLUE AUS V001 Page 5/12

exceeded or irritation is experienced, ventilation and evacuation may be required.

Revision Date: 14-Oct-22

Environmental exposure controls Avoid release to the environment.

Thermal hazards No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state Liquid Colour Yellowish Odour Petroleum

Odour threshold No information available

Remarks • Method **Values**

No data available Melting point / freezing point No data available Initial boiling point and boiling No data available

range

Flash point -4 °C

Evaporation rate No data available **Flammability** No data available

Flammability Limit in Air

Upper flammability or explosive 6.7 % limits Lower flammability or explosive 1.1 %

limits

Vapour pressure 98760 mmHg

Vapour density No data available

Relative density 0.722

Water solubility Immiscible in water

Solubility(ies) No data available **Partition coefficient** No data available **Autoignition temperature** No data available **Decomposition temperature** No data available Kinematic viscosity No data available @ 20 °C

Dynamic viscosity 400 - 600 cP

Explosive properties No information available. **Oxidising properties** No information available.

Other information

Softening point No information available Molecular weight No information available

660 g/L 660 **VOC Content (%)**

No information available **Liquid Density Bulk density** No information available Particle characteristics No information available

Section 10: Stability and reactivity

Reactivity

Reactivity None under normal use conditions.

Chemical stability

Stability Stable under normal conditions.

SDSGLUE AUS V001 Page 6/12

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition. Protect from direct

sunlight.

Incompatible materials

Incompatible materials Strong oxidising agents.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation Aspiration into lungs can produce severe lung damage. May cause pulmonary edema.

Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause

drowsiness or dizziness. May be harmful if inhaled.

Eye contact May cause irritation.

Skin contact Repeated exposure may cause skin dryness or cracking. Causes skin irritation. (based on

components).

Ingestion Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may

cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness

and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity - Product Information

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 70,600.00 mg/kg
ATEmix (dermal) 3,333.30 mg/kg
ATEmix (inhalation-dust/mist) 76.30 mg/l

Component Information

SDSGLUE AUS V001 Page 7/12

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
n-Heptane	-	= 3000 mg/kg (Rabbit)	> 73.5 mg/L (Rat) 4 h
Ethanol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h
			= 133.8 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationClassification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Chemical name	Australia	European Union	IARC
Ethanol - 64-17-5	-	-	Group 1

Reproductive toxicity No information available.

STOT - single exposure May cause drowsiness or dizziness. May cause respiratory irritation.

STOT - repeated exposure No information available.

Aspiration hazard May be fatal if swallowed and enters airways.

Section 12: Ecological information

Ecotoxicity

Aquatic ecotoxicityVery toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
n-Heptane	-	LC50: =375.0mg/L (96h, Cichlid fish)	-	-
Ethanol	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: 13400 - 15100mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)

Terrestrial ecotoxicty There is no data for this product.

Persistence and degradability

Persistence and degradability Slowly biodegradable.

Bioaccumulative potential

SDSGLUE AUS V001 Page 8/12

Bioaccumulation Not likely to bioaccumulate.

Component Information

Chemical name	Partition coefficient
n-Heptane	4.66
Ethanol	-0.32

Mobility

Mobility Immiscible in water. Given its physical and chemical characteristics, the product generally

shows low soil mobility.

Other adverse effects

Other adverse effects No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused Should not be released into the environment. Dispose of in accordance with local products

regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

See section 8 for more information

Section 14: Transport information

ADG_

UN number UN1133

Proper shipping name ADHESIVES SOLUTION

Transport hazard class(es) Packing group Ш Special Provisions

Description UN1133, ADHESIVES SOLUTION, 3, II

Limited quantity (LQ) 5 L Hazchem code •3YE

IATA

UN number or ID number UN1133

UN proper shipping name Adhesives solution

Transport hazard class(es) Packing group Ш **ERG Code** 3L **Special Provisions** А3

Description UN1133, Adhesives solution, 3, II

IMDG

UN number or ID number UN1133

UN proper shipping name ADHESIVES SOLUTION

Transport hazard class(es) 3 Packing group Ш **EmS-No** F-E. S-D Marine pollutant

Description UN1133, ADHESIVES SOLUTION (n-Heptane), 3, II, (-4°C C.C.), Marine pollutant

Transport in bulk according to Annex II of MARPOL and the IBC Code

SDSGLUE AUS V001 Page 9/12

No information available

Section 15: Regulatory information

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

National regulations

Australia

See section 8 for national exposure control parameters

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

Australian Industrial Chemicals Introduction Scheme (AICIS)

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
l ·	Contact supplier for inventory compliance status	-
	Contact supplier for inventory compliance status	-

Illicit Drug Precursors/Reagents

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

Major hazard (accident/incident planning) regulation

Verify that licence requirements are met <u>Hazardous chemical</u>
Liquids with flash points <61°C kept above their boiling points at ambient conditions

Threshold quantity (T) 200

Revision Date: 14-Oct-22

National pollutant inventory

Subject to reporting requirement

Chemical name	National pollutant inventory		
n-Heptane - 142-82-5	20 MW Threshold category 2b total		
	60000 MWH Threshold category 2b total		
	1 tonne/h Threshold category 2a total		
	25 tonne/yr Threshold category 1a total		
	400 tonne/yr Threshold category 2a total		
	2000 tonne/yr Threshold category 2b total		
Ethanol - 64-17-5	10 tonne/yr Threshold category 1		

International Inventories

AICS
NZIOC
Contact supplier for inventory compliance status.
Contact supplier for inventory compliance status.
TSCA
Contact supplier for inventory compliance status.
DSL/NDSL
Contact supplier for inventory compliance status.
EINECS/ELINCS
Contact supplier for inventory compliance status.
ENCS
Contact supplier for inventory compliance status.

SDSGLUE AUS V001 Page 10 / 12

KECL Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status.

Legend:

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Section 16: Any other relevant information

Issuing Date 14-Oct-22

Revision Date 14-Oct-22

Revision Note Initial Release.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

C Carcinogen

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

SDSGLUE AUS V001 Page 11 / 12

World Health Organization

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

SDSGLUE AUS V001 Page 12 / 12