SAFETY DATA SHEET

Neat Stain™ Gram Stain Kit - Component C

Version 2 · issued 19 October 2026

1. IDENTIFICATION

Product Identifiers

Product Name	Neat Stain Gram Stain Kit - Component C
Other Names	Gram Stain Decolourizer
Product Number(s)	27100-01C, C, EMS27100-01, PART
CAS Number	Not available.

Recommended use of the chemical and restriction on use

Laboratory chemicals. Used in the Gram staining process to distinguish between Gram-positive and Gram-negative bacteria.

Company Details

ProSciTech Pty Ltd
11 Carlton Street
KIRWAN QLD 4817
Australia
(07) 4773 9444
pst@proscitech.com
proscitech.com.au

Emergency Contact Details

ProSciTech Pty Ltd
11 Carlton Street
KIRWAN QLD 4817
Australia
(07) 4773 9444
pst@proscitech.com
proscitech.com.au

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS02 Flame
Flammable liquids 1 H224 Extremely flammable liquid and vapor.
GHS08 Health hazard
Specific target organ toxicity (single exposure) 1 H370 Causes damage to the central nervous system and the visual organs.
GHS07
Acute toxicity - inhalation 4 H332 Harmful if inhaled.
Eye irritation 2A H319 Causes serious eye irritation.
Specific target organ toxicity (single exposure) 3 H336 May cause drowsiness or dizziness.

Label Elements

Flammable • Harmful / irritant • Health hazard

Signal Words	Danger
Hazard Statement(s)	Hazard-determining components of labelling: Methyl Alcohol propan-2-ol Extremely flammable liquid and vapour. Harmful if inhaled. Causes serious eye irritation. Causes damage to the central nervous system and the visual organs. May cause drowsiness or dizziness.

Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground / bond container and receiving equipment.
Use explosion-proof [electrical/ventilating/lighting] equipment.
Use non-sparking tools.
Take action to prevent static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Primary route(s) of entry

Inhalation: Breathing in vapours, particularly in poorly ventilated areas.
Skin contact (absorption): Contact with the skin, which may cause irritation or dryness.
Eye contact: Splashes can cause eye irritation.
Ingestion: Accidentally swallowing the chemical, for example, through contaminated hands.

Human Health

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	Call a POISON CENTER/doctor if you feel unwell.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin	(Or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Environment

In case of fire: Use CO2, powder or water spray for extinction.
Store in well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
propan-2-ol	67-63-0	65-85%	Not Available
Methyl Alcohol	67-56-1	10-30%	Not Available

4. FIRST AID MEASURES

Ingestion	If symptoms persist consult doctor.
Inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
Skin Contact	Immediately wash with water and soap and rinse thoroughly.
Eye Contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Other Information	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

5. FIREFIGHTING MEASURES

Suitable extinguishing equipment

Fire	CO2, powder or water spray.
Large Fire	Fight larger fires with water spray or alcohol resistant foam.
HAZCHEM	No further relevant information available.

Special protective equipment and precautions for fire fighters

Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Protective Action Criteria for Chemicals
· PAC-1:
67-63-0 propan-2-ol 400 ppm
67-56-1 Methyl Alcohol 530 ppm
· PAC-2:
67-63-0 propan-2-ol 2000* ppm
67-56-1 Methyl Alcohol 2,100 ppm
· PAC-3:
67-63-0 propan-2-ol 12000** ppm
67-56-1 Methyl Alcohol 7200* ppm

Environmental precautions

Dilute with plenty of water.
Do not allow to enter sewers/surface or ground water.

Methods and materials for containment and clean up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.

Conditions for safe storage

Store in a cool location.
Keep container tightly sealed.
Store in cool, dry conditions in well-sealed receptacles.
Protect from heat and direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Material	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³
67-63-0 propan-2-ol	400ppm	980mg/m³	500ppm	1225mg/m³
67-56-1 Methyl Alcohol	200ppm	260mg/m³	250ppm	325mg/m³

Engineering controls

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Personal protective equipment

Eye and face protection

Tightly sealed goggles.

Skin protection

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Body protection

Wear protective clothing.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contaminated respiratory protective device.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	Clear liquid
Odour	Characteristic
pH	Not determined
Vapour Pressure	53.3 hPa
Density	0.8g/cm³
Boiling Point	15.6°C
Melting Point	Undetermined.
Solubility	Fully miscible
Specific Gravity of Density	Not available.
Flash Point	10 °C (50 °F)
Flammable (Explosive) Limits	Lower: 2.5 Vol% Upper: 13 Vol%
Ignition Temperature	425 °C (797 °F)
Formula	Not available.

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.

11. TOXICOLOGICAL INFORMATION

Acute effects	67-63-0 propan-2-ol Oral LD50 5045 mg/kg (rat) Dermal LD50 12800 mg/kg (rabbit) Inhalative LC50/4 h 30 mg/l (rat) 67-56-1 Methyl Alcohol Oral LD50 5628 mg/kg (rat) Dermal LD50 15800 mg/kg (rabbit)
Eye contact	Irritating effect.
Skin contact	Irritant to skin and mucous membranes.
Ingestion	Not available.
Inhalation	No sensitising effects known.
Chronic effects	Carcinogenic categories · IARC (International Agency for Research on Cancer) 67-63-0 propan-2-ol 3 · NTP (National Toxicology Program): None of the ingredients is listed. · OSHA-Ca (Occupational Safety Health Administration): None of the ingredients is listed.
Toxicity and irritation	Harmful Irritant

12. ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	Water hazard class 1: slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

General information
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION

ADG label required
Class 3 Flammable liquid

HAZCHEM	No further relevant information available.
UN Number	UN1219
Proper shipping name	· DOT Isopropanol · ADR 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) · IMDG, IATA ISOPROPANOL (ISOPROPYL ALCOHOL)
Transport hazard class	Class: 3 Flammable liquids, Label: 3
Packing group	II
Environmental hazard	Not applicable.
Special precautions for users	Warning: Flammable liquids. Hazard identification number (Kemler code): 33 EMS Number: F-E,S-D Stowage Category: B
Additional information	ADR · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30mL Maximum net quantity per outer packaging: 500ml · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-D · Stowage Category B · UN "Model Regulation": UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

15. REGULATORY INFORMATION

Poisons Schedule Number	Sara · Section 355 (extremely hazardous substances): None of the ingredients is listed. · Section 313 (Specific toxic chemical listings): All ingredients are listed. · TSCA (Toxic Substances Control Act): All components have the value ACTIVE. · Hazardous Air Pollutants: 67-56-1 Methyl Alcohol · Proposition 65 · Chemicals known to cause cancer: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: 67-56-1 Methyl Alcohol · Carcinogenic categories · EPA (Environmental Protection Agency): None of the ingredients is listed. · TLV (Threshold Limit Value): 67-63-0 propan-2-ol A4 · NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.
Other Information	A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

SDS preparation date	19 October 2026

Comments	Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable liquids 1: Flammable liquids – Category 1 Acute toxicity - inhalation 4: Acute toxicity – Category 4 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A Specific target organ toxicity (single exposure) 1: Specific target organ toxicity (single exposure) – Category 1
References	Electron Microscopy Science SDS: " GRAM STAIN DECOLORIZER" 06/03/2022 https://www.emsdiasum.com/docs/technical/msds/27100-01C.pdf

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of SDS ...