



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identification	STJC0001726
1.2. Relevant identified uses of the substance or mixture and uses advised against	This kit is composed of mixtures and substances which must only be used together under the guidelines of the kit protocol. This kit is intended for the purposes of scientific research use only. It must not be used in diagnostic or other medical procedures.
1.3. Details of the supplier of the safety data sheet	St John's Laboratory Ltd , Knowledge Dock Business Centre, Docklands Campus, University Way, London, E16 2RD, United Kingdom Tel: 0208 223 3081 Email: info@stjohnslabs.com
1.4 Emergency Phone	UK - Call 111 if you urgently need medical assistance or advice if in a non-life-threatening situation. 111 is available 24 hours a day, 365 days a year. USA – Emergency services –Dial 911 EU – Emergency services – Dial 112 ROW – Please seek assistance from local country services.

SECTION 2: HAZARDS IDENTIFICATION

Component	Physical Form	Hazardous ingredient	Concentration	CAS No.	EC No.
Biotinylated Detection Ab/Ag Assay diluent	Odourless and Colourless, liquid	Proclin 300	0.04%	96118-96-6	911-418-6
HRP Conjugate	Odourless and Colourless, liquid	Proclin 300	0.04%	96118-96-6	911-418-6
Standard	Odourless and Colourless, liquid	Proclin 300	0.04%	96118-96-6	911-418-6
Substrate A	Odourless and colourless, liquid	Carbamide peroxide (CP)	0.05%	124-43-6	204-701-4
Substrate B	Odourless and colourless, liquid	Carbamide peroxide (CP)	0.05%	124-43-6	204-701-4

SECTION 2: HAZARD STATEMENT

Classification according to GHS

Signal Word: WARNING
Danger Symbol:



P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352:
IF ON SKIN: Wash with plenty of soap and water.
P333+313: If skin irritation or rash occurs: Get medical advice/attention.

1.1.1 Proclin 300

H317: May cause an allergic skin reaction.

1.1.2 Carbamide peroxide (CP)

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.

Carbamide peroxide (CP)

P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+352: IF ON SKIN: Wash with plenty of soap and water.

Precuation Statement

Proclin 300

SECTION 3: INFORMATION ON INGREDIENTS

Ingredient	Concentration	CAS No.	EC No.
Sodium Chloride	0.8%	7647-14-5	231-598-3
Potassium Chloride	0.02%	7447-40-7	231-211-8
Disodium hydrogenorthophosphate	0.12%	10039-32-4	231-448-7
Potassium dihydrogen phosphate	0.02%	7778-77-0	231-913-4
Tris	1%	77-86-1	201-064-4
EDTA	0.1%	60-00-4	200-449-4
Glycerol	5%	56-81-5	200-289-5
Tween20	0.5%	9005-64-5	500-018-3
BSA	1%	9048-46-8	--
Luminol	0.1%	521-31-3	208-309-4
Mannitol	0.1%	69-65-8	200-711-8
PVP40	0.35%	9003-39-8	--
Proclin 300	0.04%	96118-96-6	--
N,N-Dimethylformamide (DMF)	0.1%	68-12-2	200-679-5
Sodium Tetraphenylborate	0.05%	143-66-8	205-605-5
Carbamide Peroxide (CP)	0.05%	124-43-6	204-701-4
Water	87.2%	7732-18-5	231-791-2

SECTION 4: FIRST-AID MEASURES

Classification according to GHS

4.1 General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

4.2 If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.3 In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

4.4 In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.5 If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Suitable: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide or appropriate foam.

For small fires, use media such as "alcohol" foam, dry chemical or carbon dioxide.

For large fires, apply water from as far as possible. Use large quantities of water applied as a mist or spray. Solid streams of water may be ineffective. Cool affected containers with flooding quantities of water.

5.2 Special precautions for fire-fighters

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

5.3 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions

Use personal protective equipment. Avoid breathing vapors, 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.

6.2 Measures for environmental protection

Prevent further leakage or spillage if safe to do so. Do not let enter drains. Discharge into the environment must be avoided.

6.3 Measures for containment and cleaning

Contain spillage, and then collect with non-combustible absorbent material (eg. sand, diatomaceous earth, vermiculite). Place in a container for disposal according to local regulations. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Handling

Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Mechanical exhaust required. Keep away from ignition sources, heat and flame. No smoking at working site. Incompatibilities: Strong oxidizing agents, Strong acids. Handling and unloading should be light, to prevent packaging broken, damp and cause losses. Working place should be equipped with appropriate varieties and quantities of firefighting equipment and leakage emergency treatment equipment.

7.2 Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Keep away from sources of ignition. Incompatible: Strong oxidizing agents, Strong acids. Storage place should be equipped with appropriate varieties and quantities of firefighting equipment and leakage emergency treatment equipment.

SECTION 8: EXPOSURE CONTROL/PPE

8.1 Engineering Controls

Mechanical exhaust required. Safety shower and eye bath.

8.2 Personal Protective Equipment

Respiratory: Government approved respirator if needed.

Eye/face: Chemical safety goggles if needed.

Clothing: Wear appropriate protective clothing.

Hand/skin: Protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Wear suitable protective clothing according to the concentration and amount of the substance at the workplace.

8.3 Other Protect

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Proclin 300

Appearance: Liquid

Odour: No data available

Odour threshold: No data available

pH 4.1 at 100 g/L

Melting point/freezing point: -40 °C

Initial boiling point and boiling range: 189 °C

Flash point: 118 °C - closed cup

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: 1.03 g/cm³

Water solubility: Soluble

Partition coefficient: noctanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Carbamide peroxide (CP)

Appearance: White crystalline

Odour: No data available

Odour threshold: No data available

pH: No data available

Melting point/freezing point: 90 - 93 °C - lit.

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: 23.3 mmHg at 30 °C

Vapour density: No data available

Relative density: 1.390 g/cm³ at 20 °C

Water solubility: No data available

Partition coefficient: noctanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: > 60 °C

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: The substance or mixture is classified as oxidizing with the category 3.

Other safety information: Bulk density 0.6 - 0.7 g/L

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, flames and sparks

10.5 Incompatible materials

Strong oxidizing agent, Light sensitive, Alcohols, Organic materials, Heavy metals, Powdered metals, Strong reducing agents, Amines, Mercaptans.

10.6 Hazardous decomposition products

Other decomposition products: No data available

Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas.

SECTION 11: TOXICOLOGICAL INFORMATION

Proclin 300

Acute toxicity

LD50 Oral - Rat - 862 mg/kg

LD50 Dermal - Rabbit - 2,800 mg/kg

Skin corrosion/irritation

Skin - Rabbit Result: Corrosive Serious eye damage/eye irritation

Eyes - Rabbit Result: Corrosive to eyes

Respiratory or skin sensitisation - Guinea pig Result: May cause sensitisation by skin contact. Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Carbamide peroxide (CP)

LD50 = 4060 mg/kg (skin-rat)

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION 12: ECOLOGICAL INFORMATION

Proclin 300

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

Carbamide peroxide (CP)

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

SECTION 13: DISPOSAL CONSIDERATION

13.1 Disposal methods

Dispose of waste in accordance to applicable national, regional, or local regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging

Dispose in the same manner as unused product.

SECTION 14: TRANSPORT INFORMATION

RID/ADR: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport

IATA: Non-Hazardous for Air Transport.

IMO: Non-Hazardous for Sea Transport.

SECTION 15: REGULATORY INFORMATION

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.

SECTION 16: OTHER INFORMATION

The products referenced in this sheet are sold with intention for research use only by personnel familiar with chemicals and trained professionals with good laboratory practices in science research. No other use is intended, and any other use may involve substantive hazards.

All information is believed to be correct at the time of writing, does not purport to be all inclusive and shall be used only as guide for experienced personnel. Users should carry out their own investigation to determine the suitability of the information for their purposes. In no way shall we 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 from using the above information.