MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Rapid Romanowsky Stain Solution A

Product code: HST200A-A

Brand: Solmedia Ltd

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

Identified uses – Manufacture of substances. Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Solmedia Ltd.
- Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK
- Telephone: 0844 80 80 900
- Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone # +44 (0)844 80 80 900

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP: Regulation (EC) No. 1272/2008 [CLP]

Hazard Class	Hazard Category	Target Organs	Hazard Statement
Acute toxicity	Category 3	Airways	H301
Acute toxicity	Category 3	Oral	H311
Acute toxicity	Category 3	Dermal	H331
Specific target organ toxicity	Category 1	-	H370
Flammable liquid	Category 2	-	H225

Most important adverse effects: Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to organs.

2.2 Label elements

Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.

H301+311+331: Toxic if swallowed, in contact with skin or if inhaled.

H370: Causes damage to organs.

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS06: Skull and crossbones

GHS08: Health hazard

Precautionary statements:

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.

Rinse skin with water/shower.

P307+311: IF exposed: Call a POISON CENTER or doctor.

P311: Call a POISON CENTER or doctor.

P321: Specific treatment (see instructions on this label).

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

2.3 Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture. . This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients:

Name:	EINECS	CAS	CHIP Classification	CLP Classification	Percent
Methanol	200-659-6	67-56-1	-	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3:	>95%

				H311; Acute Tox. 3: H301; STOT SE 1: H370	

Contains: Azur B C.I. 52010

SECTION 4: First aid measures

4.1 Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: May be harmful if absorbed through the skin. There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal

Eye contact: There may be severe pain. The eyes may water profusely. The vision may become blurred,

Ingestion: Toxic if swallowed. There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: May be harmful if inhaled. There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. There may be loss of consciousness. May cause drowsiness and dizziness. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Highly flammable. Toxic. In combustion emits toxic fumes. Vapour may travel considerable distance to source of ignition and flash back.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Notify the police and fire brigade immediately. Eliminate all sources of ignition. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and materials for containment and cleaning up

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4 Reference to other sections

Refer to section 8 of SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well-ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build-up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

7.3 Specific end use(s)

No other specific uses stipulated other than the uses mentioned in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazardous ingredients:

METHANOL

Workplace exposure limits (WEL):

State	8-hour TWA (Time weighted average)	15 min. STEL (Short term exposure limit)
UK.EH40	266 mg/m3	333 mg/m3

DNEL / PNEC

Route of exposure	Acute effects - local	Acute effects - systemic	Chronic effects - local	Chronic effects – systemic
Inhalation	50 mg/m3			
Dermal	-	8mg/kg bw/day	-	8mg/kg bw/day
Oral	-	8mg/kg bw/day	-	8mg/kg bw/day

8.2 Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with 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 application laws and good laboratory practises. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact - Material: butyl rubber.
Minimum layer thickness: 0.3mm.

Break through time: 8hrs.
Splash contact - Material: butyl rubber.
Minimum layer thickness: 0.3mm.
Break through time: 8hrs. If used in solution, or mixed with substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

Eye protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Environmental: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Pale blue
Odour	Alcoholic
Melting/freezing point	FP: -98 Degrees C Approx.
Initial boiling point/boiling range	BP: 64 Degrees C approx.
Flammability	385 degrees C approx. – burns with non-luminous bluish flame.
Upper/lower explosion limits	Upper limit in air = 36% (v) at 20 degrees C
	Lower limit in air = 6% (v) at 20 degrees C
Flash point	12 degrees C (closed cup)
Auto-ignition temperature	385 degrees C
Decomposition temperature	No data available
pH	Approx. 7.6
Kinematic viscosity	0.7500x10^6/m2 at 20 degrees C
Solubility at 20 degrees C	Miscible
Partition co-efficient n-octanol/water (log value)	N/A
Vapour pressure	100mm Hg at 21.2 degrees C
Density and/or relative density	0.791-0.793 g/ml at 25 degrees C
Relative vapour density	1.1 (Air=1)
Particle characteristics	Not applicable

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixture with air due to low flashpoint

10.2 Chemical stability

Stable under normal conditions. Stable at room temperature.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid

Heat. Hot surfaces. Sources of ignition. Flames. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Strong oxidising agents. Strong acids

10.6 Hazardous decomposition products

In combustion emits toxic fumes. CO2 and NO.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients:

MENTHOL

IVN	RAT	LD50	2131	mg/kg
ORL	MUS	LD50	7300	mg/kg
ORL	RAT	LD50	5628	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through the skin. There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal**.**

Eye contact: There may be severe pain. The eyes may water profusely. The vision may become blurred.

Ingestion: Toxic if swallowed. There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness**.**

Inhalation: May be harmful if inhaled. There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. There may be loss of consciousness. May cause drowsiness and dizziness. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: RTECS: PC1400000
Methyl alcohol may be fatal or cause blindness if swallowed.
Effects due to ingestion may include, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma,
Seizures.
Symptoms may be delayed., Damage of the, Liver, Kidney
Central

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Readily absorbed into soil

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: 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 solutions to a licensed disposal company.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

14.1 UN number

UN1230

14.2 UN proper shipping name

METHANOL

14.3 Transport hazard class(es)

3 (6.1)

14.4 Packaging group

II

14.5 Environmental hazards

No

14.6 Special precautions for user

Special precautions: No special precautions.
Tunnel code: D/E
Transport category: 2

SECTION 15: Regulatory information

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

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

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3:

H225: Highly flammable liquid and vapour

H301: Toxic if swallowed

H301+311+331: Toxic if swallowed, in contact with skin or if inhaled.

H311: Toxic in contact with skin.

H331: Toxic if inhaled.

H370: Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.