
MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name: Indicator Solution No. 9 SCREENED METHYL ORANGE XYLENE CYANOL solution.

Product number: IS09, 125733175

Brand: Solmedia Ltd

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

Identified uses: Test reagent

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

Hazard Class	Hazard Category	Target Organs	Hazard Statement
Flammable liquid and vapour	Category 2	-	H225
Health hazard	STOT SE2	Eyes and brain. Route of exposure; oral, nasal, and dermal.	H371

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008. The product is classified and labelled according to the CLP regulation.

Signal word: Danger.



GHS02 GHS08

Hazard Statements:

H225 highly flammable liquid and vapour

H371 may cause damage to the eyes and brain. Route of exposure; oral and inhalative, dermal.

Precautionary Statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P303+P361+P353 If ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

This product is not identified as a PBT substance.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

		Classification (Regulation (EC) No 1272/2008 [CLP])		
Hazardous Components		Amount [%]	Hazard class/ Hazard category	Hazard Statements
Name:	Industrial methylated spirits	~50%	FLAM. LIQUID CAT. 2	H225
CAS NO.	64-17-5			
EC-NO.	200-578-6			
EU REACH-REG. NO.	01-2119457610-43			
Name:	Methyl orange	~0.2%	Toxic If swallowed CAT.3	H301
CAS NO.	77-09-8			
EC-NO.	201-004-7			

Name:	Xylene cyanol FF	~0.28%	Eye irritant CAT. 2	H319
CAS NO.	2650-17-1		Skin irritant CAT. 2	H315
EC-NO.	220-167-5		Respiratory irritant CAT. 3	H335
Name:	DI Water	~50%	N/A	N/A
CAS NO.	7732-18-5			
EC-NO.	231-791-2			

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After inhalation Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

4.5 Information to physician

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1 Extinguishing media

Suitable extinguishing media Water spray ABC-powder Carbon dioxide (CO₂) Nitrogen

Extinguishing media which must not be used for safety reasons no restriction

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂) Carbon monoxide

5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use personal protection equipment.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid: Inhalation Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature: 15-25 °C Storage class: 3 Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Exposure controls

8.1.1 Appropriate engineering controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Skin 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 applicable laws and good laboratory practices.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Wash and dry hands.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (DIN EN 136/140) Recommendation: VWR 111-0206 Suitable material: A2B2E2K2P3 Recommendation: VWR 111-0059

(EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection:



Goggles recommended during refilling: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Additional Information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Control of environmental exposure

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

APPEARANCE AND ODOR CLEAR GREEN OR GREY OR MAGENTA LIQUID

FLASHPOINT 76 F BY:

SPECIFIC GRAVITY: 0.918

SECTION 10: Stability and reactivity

INCOMPATIBILITIES

OXIDIZING AGENTS PEROXIDES ACIDS ACID CHLORIDES ACID ANHYDRIDES ALKALI METALS AMMONIA

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS TOXIC FUMES OF: CARBON MONOXIDE, CARBON DIOXIDE

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

ACUTE EFFECTS MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN. VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

CAUSES SKIN IRRITATION.

EXPOSURE CAN CAUSE: DAMAGE TO THE EYES, NAUSEA, DIZZINESS AND HEADACHE CAN CAUSE CNS DEPRESSION.

CHRONIC EFFECTS

DAMAGE TO THE LIVER

DAMAGE TO THE HEART DAMAGE TO THE KIDNEYS TARGET ORGAN(S): EYES LIVER, KIDNEYS

NERVES ADDITIONAL INFORMATION WARNING: CONTAINS METHANOL.

MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED.

CANNOT BE MADE NONPOISONOUS. TARGET ORGAN DATA GASTROINTESTINAL (GASTRITIS) GASTROINTESTINAL (NAUSEA OR VOMITING) KIDNEY, URETER, BLADDER (OTHER CHANGES IN URINE COMPOSITION) ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE.

SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION 12: Ecological information

SLIGHTLY TOXIC TO AQUATIC SPECIES.

13.1 Waste treatment methods

Disposal operations:

Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging

Arrange for collection by specialised disposal company.

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

ADR, IMDG, IATA UN1170

14.2 UN Proper shipping name

1170 ethanol solution

14.3 Transport hazard classes

Class 3 (F1) Flammable liquids

Packaging group:

II

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Warning flammable liquids

Kemler Number: 33

EMS number: F,-E,S-D

Transport additional information:

ADR

Excepted Quantities (EQ) E2

Limited Quantities (LQ) 1L

Transport Category 2

Tunnel Restriction Code D/E

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 as amended by Regulation (EU) 2015/830.

Water hazard class (WGK): strongly hazardous to water (WGK 3)

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

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.