



SPECIALISTS IN RESIST TECHNOLOGY

SAFETY DATA SHEET

Creation Date 21-May-2011

Revision Date 07-April-2025

SECTION 1: Identification

Product Name: SML series electron beam resist
Identified Uses: Positive tone electron beam resist
Company: EM Resist Ltd.
 Media House
 Adlington Park
 Macclesfield
 SK10 4NL
 UNITED KINGDOM
Telephone: +44 (0)1625 813723
E-mail Address: info@emresist.com
Emergency Phone #: +44 (0)1625 813723

SECTION 2: Hazards identification

Classification

Flammable liquids	(Category 3), H226
Acute toxicity, Oral	(Category 4), H302
Skin corrosion/irritation	(Category 2), H315
Serious eye damage/eye irritation	(Category 2), H319
Specific target organ toxicity	(Category 3), central nervous system, H336
Germ cell mutagenicity	(Category 2), H341
Chronic aquatic toxicity	(category 2), H411

Label Elements

Pictogram



Signal Word

Warning

Hazard statement(s) :

H226 Flammable liquid and vapour

H411 Toxic to aquatic life with long

Precautionary statement(s):

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

	lasting effects.	P308 + P313	IF exposed or concerned: Get medical advice/ attention.
H341	Suspected of causing genetic defects.	P264b	Wash face, hands and any exposed skin thoroughly after handling.
H302	Harmful if swallowed	P261	Avoid breathing dust/fume/gas/mist/vapours/spray
H315	Causes skin irritation	P280	Wear protective gloves/protective clothing
H319	Causes serious eye irritation	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician
H336	May cause drowsiness or dizziness	P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
		P271	Use only outdoors or in a well-ventilated area.
		P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
		P370 + P378	In case of fire: Use CO ₂ , dry chemical or foam for extinction.
		P403	Store in a well-ventilated place. Keep container tightly closed.
		P501	Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition / information on ingredients

Component	Weight %
Anisole CAS: 100-66-3	<=96%
Component A Trade Secret	<=14%
Component B Trade Secret	<=1%
Component C Trade Secret	<=2%
Component D Trade Secret	<=1%
Component E Trade Secret	<=1%

SECTION 4: First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult give oxygen. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention
Most important symptoms/effects	Breathing difficulties. Symptoms of overexposure may be headaches, dizziness, tiredness, nausea and vomiting. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

SECTION 5: Fire-fighting measures

Suitable Extinguishing Media	User water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Flash Point	45°C / 113F
Autoignition Temperature	475°C / 887°F
Specific Hazards Arising from the Chemical	Flammable. Risk of ignition. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Thermal decomposition can lead to release of irritating gases and vapours. Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Phenols. Development of hazardous combustion gases or vapours possible in the event of fire.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

SECTION 6: Accidental release measures

Personal Precautions	Use personal protective equipment as required. Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing
Environmental Precautions	Avoid release to the environment

Methods for Containment and Clean Up

Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment

SECTION 7: Handling and storage**Handling**

Wear person protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharge. Avoid contact with skin, eyes and clothing

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables areas.

SECTION 8: Exposure controls/personal protection**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location

**Personal Protective Equipment
Eye/face Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

Physical State	Liquid
Appearance	Dark orange to black
Odor	Sweet aromatic
Odor Threshold	No Information available
pH	No Information available
Melting Point/Range	-37°C / -34.6°F
Boiling Point/Range	154°C / 309.2°F @ 760 mmHg
Flash Point	45°C / 113°F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	6.3 vol %
Lower	0.34 vol %
Vapor Pressure	10 mmHg @ 42°C
Vapor Density	3.72
Relative Density	No information available
Solubility	Insoluble in water
Autoignition Temperature	475°C / 887°F
Decomposition Temperature	No information available
Partition coefficient: n-octanol/water	No information available
Viscosity	No information available

SECTION 10: Stability and reactivity

Reactive Hazard	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	Stable under normal conditions
Conditions to avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidising agents. Strong bases. Strong acids.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Phenols.
Hazardous Polymerisation	Hazardous polymerisation does not occur.
Hazardous Reactions	No dangerous reactions known.

SECTION 11: Toxicological information**Acute Toxicity**

Product Information**Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Anisole	Not listed	Not listed	3021 mg/m3/2h (Mouse)

Toxicologically Synergistic Products

No information available

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

Irritation	No information available.
Sensitization	No information available.
Carcinogenicity	No information available.
Germ cell mutagenicity	Suspected of causing genetic defects. Histidine reversion (Ames).
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT – single exposure	Central nervous system (CNS). Inhalation - May cause drowsiness or dizziness.
STOT – repeated exposure	No information available.
Aspiration hazard	No information available.
Symptoms/effects, both acute and delayed	Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting.
Endocrine Disruptor Information	No information available.

SECTION 12: Ecological Information

Ecotoxicity	Do not empty into drains.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.

**Special remarks on the
Products of Biodegradation**

Information not available.

SECTION 13: Disposal Considerations

Product	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.
Contaminated Packaging	Dispose of as unused product.

SECTION 14: Transport Information

UN-No	UN2222
Proper Shipping Name	ANISOLE SOLUTION
Hazard Class	3
Packing Group	III

SECTION 16: Other information

Prepared By	EM Resist Ltd.
Creation Date	21-May-2011
Revision Date	07-April-2025
Revision Summary	No updates

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.