

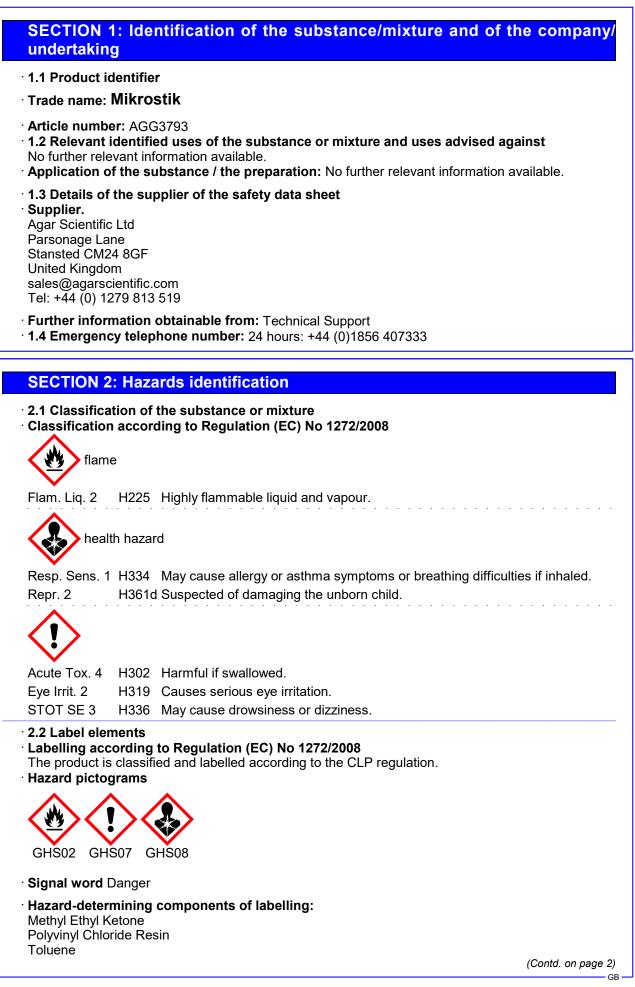
Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 16.02.2022

Version number 1

Revision Date 16.02.2022



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Trade name: Mikrostik

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 Hazard statement 	S S
H225 Highly flam	mable liquid and vapour.
H302 Harmful if s	wallowed.
H319 Causes ser	ious eve irritation.
	allergy or asthma symptoms or breathing difficulties if inhaled.
	of damaging the unborn child.
	drowsiness or dizziness.
• Precautionary sta	
	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin
	with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
· 2.3 Other hazards	i
· Results of PBT ar	nd vPvB assessment

· **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous comport	nents:	
CAS: 78-93-3	Methyl Ethyl Ketone	79.0%
EINECS: 201-159-0	Flam. Liq. 2, H225; () Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H336	-
CAS: 9002-86-2	Polyvinyl Chloride Resin	13.0%
	🚸 Resp. Sens. 1, H334; 🚸 Eye Irrit. 2, H319	
CAS: 110-19-0	Iso-butyl Acetate	5.0%
EINECS: 203-745-1	🚸 Flam. Liq. 2, H225	
CAS: 108-88-3	Toluene	3.0%
EINECS: 203-625-9	♦ Flam. Liq. 2, H225; ♦ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H336	

Additional information:

For the wording of the listed hazard phrases refer to section 16. Appearance: Clear to hazy viscous liquid. Immediate effects: ND Potential health effects Primary Routes of entry: Dermal, Inhalation, ingestion. Signs and Symptoms of Overexposure: ND Eyes: Severe irritation, redness, tearing blurred vision. Skin: Moderate irritation, defatting dermatitis. Ingestion: Gastrointestinal irritation, nausea, vomiting, and diarrhea. Inhalation: Nasal and respiratory irritation, dizziness, fatigue, nausea, headache and narcosis. Prolonged or repeated breathing of high concentrations may cause liver and kidney damage and neural disfunction. Chronic Exposure: ND Chemical Listed As Carcinogen Or Potential Carcinogen: Toluene

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SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Remove to fresh air. If breathing difficult administer oxygen. If breathing has stopped give artificial respiration. Call a physician.

After skin contact:

Immediately rinse with water.

Wash thoroughly with soap and water. Remove all contaminated clothing.

· After eye contact:

Rinse opened eye under running water. If symptoms persist, consult a doctor. Flush with water for at least 15 minutes. Get medical attention.

- After swallowing: Call for a doctor immediately.
 - Call for a doctor immediately.

Do not induce vomiting. Call a physician.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: Foam, "Alcohol" Foam, CO2, Dry Chemical, Water Fog.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

Closed containers may explode if exposed to temperatures exceeding the boiling point. Use water spray to keep closed containers cool.

- Hazardous combustion products: Carbon dioxide and carbon monoxide.
- 5.3 Advice for firefighters
- **Protective equipment:** Wear self contained breathing apparatus.
- Additional information Flash Point: -6°C, TCC

Flammable Limits: LEL: 1.2

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and glasses.

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning 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.

Eliminate all ignition sources immediately. Dike large spills. Collect with vermiculite or other absorbent material. If TLV is exceeded personnel should wear air supplied respirator or for large spills impervious clothing and boots are advised.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

 Information about fire - and explosion protection: The dried resin is combustible, similar to wood. Burning dry resin emits dense, black smoke. As latex, material is not combustible. Protect against electrostatic charges. Extinguishing media: Water fog - dried resin only.

 \cdot 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
 Store in cool dry place. Keep away from heat, sparks, flame.
 Storage temperature: Room temperature.
- Information about storage in one common storage facility: Not required. • Further information about storage conditions:
- Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

•7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Additional information about design of technical facilities:

Ventilation required: Sufficient mechanical ventilation should be provided to maintain exposure below TLV.

Ingredients with limit values that require monitoring at the workplace:	

78-93-3 Methyl Ethyl Ketone WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

110-19-0 Iso-butyl Acetate

WEL Short-term value: 903 mg/m³, 187 ppm Long-term value: 724 mg/m³, 150 ppm

108-88-3 Toluene

WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk

Ingredients with biological limit values:

78-93-3 Methyl Ethyl Ketone

BMGV 70 µmol/L Medium: urine Sampling time: post shift

Parameter: butan-2-one

• Additional information: The lists valid during the making were used as basis.



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8.2 Exposure controls

· Personal protective equipment:

General protective and hygienic measures:

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- Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Eyewash advised. Remove any contaminated clothing. Wash hands thoroughly before eating or smoking. **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. If the TLV is exceeded a NIOSH/MSHA approved air supplied respirator is advised. Protection of hands: 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. Natural rubber or neoprene. 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. Eye protection: Tightly sealed goggles Chemical splash goggles are advised. · Body protection: Gloves and protective clothing. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties General Information · Appearance:
- Form:
 Liquid

 Colour:
 Clear

 Odour:
 Pungent

 Odour threshold:
 Not determined.

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Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : 79 °C
Flash point:	-6 °C
· Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation o explosive air/vapour mixtures are possible.
Explosion limits: Lower: Upper:	1.2 Vol % Not determined.
Vapour pressure at 20 °C:	71 hPa
Density at 20 °C: Relative density Vapour density at 20 °C Evaporation rate at 20 °C	0.85 g/cm ³ Not determined. >1 (air=1) >2 (butyl acetate=1)
Solubility in / Miscibility with water:	Partial
Partition coefficient: n-octanol/water:	Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents: VOC (EC)	87.0 % 87.00 %
Solids content:	0.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- · 10.2 Chemical stability Stable.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Temperatures exceeding 65°C.
- 10.5 Incompatible materials: Oxidising Agents.
- 10.6 Hazardous decomposition products: Fire conditions, Carbon dioxide and carbon monoxide.
- · Additional information: Hazardous Polymerisation: Will not occur.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity
- Harmful if swallowed.

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		evant for classification:
78-93-3 M		
Oral	LD50	616 mg/kg (mouse)
		2,737 mg/kg (rat)
Dermal	LD50	6,480 mg/kg (rabbit)
Inhalative	LC50/4 h	32 mg/l (mouse)
108-88-3 1	Foluene	
Oral	LD50	636 mg/kg (rat)
Dermal	LD50	14,100 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
		in biological assay:
		ation Based on available data, the classification criteria are not met.
Serious eg	ye damag	e/irritation
Causes se		
		sensitisation
		r asthma symptoms or breathing difficulties if inhaled.
May cause		gical information:
		S contain compounds listed by NTP or IARC or regulated by OSHA as
		(108-88-3)
		nogenity, mutagenicity and toxicity for reproduction)
· Germ cell	mutagen	icity Based on available data, the classification criteria are not met.
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12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Trade name: Mikrostik (Contd. of page 7) · Recommendation: Disposal must be made according to official regulations. **SECTION 14: Transport information** · 14.1 UN-Number · ADR, IMDG, IATA UN1993 · 14.2 UN proper shipping name · ADR 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE)) · IMDG, IATA FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE)) · 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class 3 Flammable liquids. · Label 3 · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Flammable liquids. · Hazard identification number (Kemler code): 33 F-E,S-E · EMS Number: Stowage Category А · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category 3 · Tunnel restriction code D/E · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE)), 3, III GB

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SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

· Department issuing SDS: Sales department

Contact:

sales@agarscientific.com

Tel: +44 (0) 1279 813 519 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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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) 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 Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Repr. 2: Reproductive toxicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1