

SECTION 1: Identification of the substance / mixture and of the company**1.1 Product identifier****Product name:** Histokitt Product No.: 41025010 (ex 1025/500)**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified use:** Quick-hardening mounting medium for microscopy**Uses advised against:** No further relevant information available.**1.3 Details of the supplier of the safety data sheet**

Glaswarenfabrik Karl Hecht GmbH & Co KG

Stettener Str. 22 - 24

97647 Sondheim/Rhön, Germany

Phone +49 9779 808-0, Fax + 49 9779 808-88, versand@hecht-assistent.de www.hecht-assistent.de

1.4 Emergency phone number

Tel. +49 (0) 9779 808-0 during office hours only: 7.00 - 12.00 h and 13.00 - 15.30 h Fridays until 12.30 h

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

as per regulation 1272/2008/EC (CLP)

Flam. Liq. 3	H226	Flammable liquid and vapour.
Acute Tox. 4	H312	Harmful in contact with skin.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Acute Tox. 4	H332	Harmful if inhaled.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure.

2.2 Label elements

as per regulation 1272/2008/EC (CLP)

Hazard pictograms



GHS02



GHS07



GHS08

Signal word: Warning**Hazard-determining component/s of labelling:** Xylene**Hazard statements**

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
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Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources
No smoking.
- P241 Use explosion-proof electrical / ventilating / lighting equipment.
- 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.
- 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.

Additional information

EUH208 Contains n-butyl methacrylate. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment: Not determined

SECTION 3: Composition / information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Composition / information on ingredients		
	Classification as per regulation 1272/2008/EC	Proportion
XYLENE CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50 - 70 %
N-BUTYL-METHACRYLATE CAS: 97-88-1 EINECS: 202-615-1 Index number: 607-03300-5	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.1 - < 1.0 %

For the wording of the listed hazard phrases refer to section 16.

Section 4: First aid measures

4.1 Description of first aid measures

General information

Take affected persons out of danger area and lay down. Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation

In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact

Immediately rinse with water. If skin irritation continues, consult a doctor.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical treatment.



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After swallowing

Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

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: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable: Water with full jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released: Carbon monoxide, carbon dioxide

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated firefighting water separately. It must not enter the sewage system.

Avoid skin contact by wearing suitable protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources.

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

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

Section 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace. Prevent formation of aerosols.

Information about fire and explosion protection: Keep ignition sources away. Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well-sealed receptacles.

7.3 Specific end uses(s): No further relevant information available.



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

XYLENE; CAS-No.: 1330-20-7

WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV IOELV (EU) Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin
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Ingredients with biological limit values

XYLENE; CAS-No.: 1330-20-7

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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8.2 Exposure controls

General protective measures

Do not eat, drink, smoke or sniff while working. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Do not inhale gases / fumes / aerosols. Avoid contact with eyes and skin. The usual precautionary measures are to be adhered to when handling chemicals.

Personal protective equipment

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.

Skin protection: Protective gloves.

Use only chemical-protective gloves with CE marking of category III.

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

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 cannot be calculated in advance and has therefore to be checked prior to the application.

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.

Other skin protection: Protective work clothing.

Eye protection: Tightly sealed goggles.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form colourless fluid
Odour aromatic

Safety related data

Parameter	Value	Remark
Initial boiling point and boiling range Decomposition temperature: Density at 20 °C Vapour pressure at 20 °C Vapour density Relative density Relative vapour density	137 °C 0.95 g/cm ³ <8 hPa	not determined not determined not determined not determined
Evaporating rate Explosion limits lower upper Explosive properties	1.1 vol % 8.0 vol % Product is not explosive. However, formation of explosive air / vapour mixtures are possible.	not determined (xylene) (xylene)
Flammability (solid, gas) Flash point Auto-ignition temperature Ignition temperature	~ 23 °C > 250 °C	not applicable Product is not self-igniting.
Melting point / freezing point Odour threshold Oxidising properties Partition coefficient n-octanol / water pH value		not determined not determined none not determined not determined
Solubility in water Viscosity dynamic at 20 °C kinematic	250-450 mPa·s	insoluble not determined

9.2 Other information

No further relevant information available.

SECTION 10: Stability und reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability: No decomposition if used and stored according to specifications.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Harmful in contact with skin or if inhaled.



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LD/LC50 values relevant for classification

XYLENE; CAS-No.: 1330-20-7

Oral LD50 3523 mg/kg (Rat) (EU Method B.1)

N-BUTYL METHACRYLATE; CAS-No. 97-88-1

Dermal LD50 10181 mg/kg (Rabbit)

Primary irritant effect:

Skin corrosion / irritation. Causes skin irritation.

Serious eye damage / irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity / Carcinogenicity / .Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT - single exposure: May cause respiratory irritation.

STOT- repeated exposure: May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Xylene; CAS-No.: 1330-20-7

LC50 (96h)	2,6 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss) Read-across
EC50 (3h)	>157 mg/L (Bacteria) (OECD Guideline 209, activated sludge) Read-across
EC50 (static)	2,2 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata) 73h; Read-across
NOEC	1,17 mg/L (Daphnia) (US EPA 600/4-91-003, Ceriodaphnia dubia) 7d; Read-across > 1,3 mg/L (Fish) (Oncorhynchus mykiss) 56d
IC50 (static)	1 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) Read-across

n-butyl methacrylate; CAS-No. 97-88-1

LC50 (96h) (dynamic)	11 mg/L (Fish) (OECD Guideline 203, Pimephales promelas) measured
EC50 (48h) (static)	25,4 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
EC50 (72h) (static)	31,2 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)
NOEC (21d)	1,1 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna)
NOEC (28d)	100 mg/L (Bacteria) (OECD Guideline 301 C)

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Must be specially treated adhering to official regulations.

Contaminated packaging

Disposal must be made according to official regulations.



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SECTION 14: Transport information

14.1 UN number		
ADR/RID, IMDG, IATA	UN 1307	
14.2 UN proper shipping name		
ADR/RID, IMDG, IATA	XYLENES	
14.3 Transport hazard class(es)		
ADR/RID, IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
14.4 Packing group		
ADR/RID, IMDG, IATA	III	
14.5 Environmental hazards	not applicable	
14.6 Special precautions for user	see sections 6 - 8	
Danger code (Kemler)	30	
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	The product is delivered in suitable and approved packages only.	
Additional Information		
ADR	IMDG	
Classification code F1	EmS	F-E, S-D
Transport category 3	Stowage category	A
Tunnel restriction code D/E		
Limited quantity 5 litres		

SECTION 15: Regulatory information

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

EU-Regulations

Seveso Directive 2012/18/EU Annex 1: None of the ingredients is listed.

Seveso category: P5c Flammable liquids

Qualifying quantity for the application of lower-tier / upper-tier requirements: 5,000 t / 50,000 t

Regulation 1907/2006/EC Annex XVII: Conditions of restriction: 3

Regulation 1005/2009/EC on substances that deplete the ozone layer: Ingredients are not listed.

Regulation 649/2012/EU concerning the export and import of dangerous chemicals

Ingredients are not listed.

Regulation 2011/65/EU on the restriction of hazardous substances in electrical and electronic equipment (RoHS) - Annex II

Ingredients are not listed.

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.



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SECTION 16: Other information

The information contained herein is based on our present knowledge. It characterizes the product with regard to the appropriate safety precautions. It shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Hazard statements mentioned in section 2 and 3

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure.

Acute Tox. 4	Acute toxicity - category 4
Eye Irrit. 2	Serious eye damage / eye irritation - category 2
Flam. Liq. 3	Flammable liquids - category 3
Skin Irrit. 2	Skin corrosion / irritation - category 2
Skin Sens. 1	Skin sensitisation - category 1
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

Legend

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Regulation for Classification, Labelling and Packaging
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	(from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
UN	United Nations
vPvB	very Persistent and very Bioaccumulative