

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

1.1 Product identifiers

Product name : MK50 Fotomask

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

Identified uses : Photographic process reagent

Used advised against : None identified

1.3 Details of the supplier of the safety data sheet

Company : Jay House Ltd
6B Park Lane Industrial Estate
Park Lane
Corsham
SN13 9LG
United Kingdom

Telephone : 01249 714555
E-mail address : info@fotospeed.com

1.4 Emergency telephone number

Emergency Phone : 01249 714555 (only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flammable liquids (Category 2)	H225
Reproductive toxicity (Category 2)	H361d
Specific target organ toxicity - repeated exposure (Category 2)	H373i
Skin irritation (Category 2)	H315
Eye irritation (Category 2)	H319
Specific target organ toxicity - single exposure (Category 3)	H336

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]



Pictogram

Signal word Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour
H361d	Suspected of damaging the unborn child
H373i	May cause damage to organs through prolonged or repeated exposure through inhalation
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P281 Use personal protective equipment as required.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.

2.3 Other hazards :

This product is not identified as a PBT/vPvB substance

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

CAS No.	EC No.	Index No.	Classification	Concentration
Toluene				
108-88-3	203-625-9	601-021-00-3	Flam. Liq.2, Asp. Tox. 1, Repr. 2 Skin Irrit. 2, STOT – RE 2, STOT - SE 3 H225, H361d, H304, H373i, H315, H336	65%%
Butan-2-one				
78-93-3	201-159-0	606-002-00-3	Flam. Liq.2, Skin Irrit. 2, STOT - SE 3 H225, H319, H335, H336, EUH066	35%

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If vapour or mists are breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists obtain medical attention.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes. Take care not to wash the chemical from one eye to the other. If irritation persists obtain medical attention.

If swallowed

Never give anything by mouth to an unconscious person. If person is conscious, rinse mouth with water and give plenty of water to drink. If feeling unwell seek prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

When properly handled, the product is not dangerous for human health.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which is suitable and appropriate for any surrounding fire.

Unsuitable extinguishing media

None.

5.2 Special hazards arising from the substance or mixture

Highly dependent on combustion conditions. May produce decomposition fumes and combustion products if involved in a fire.

5.3 Advice for firefighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Use water spray to cool containers. Use water fog to disperse vapours and leaks that have not ignited. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours or mists. Ensure adequate ventilation.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Absorb in inert material such as sand or non-combustible granules. Scoop up and place in a plastic container and dispose of in a manner consistent with applicable regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place away from sources of ignition. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store near acids.

7.3 Specific end use(s)

No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with occupational exposure limits

Component	CAS No.	Reference period	Exposure Limit	Basis
Toluene	108-88-3	8hr TWA 15minSTEL	191 mg/m ³ 3849 mg/m ³	EH40 WEL (Sk)
Butan-2-one	78-93-3	8hr TWA 15minSTEL	600 mg/m ³ 899 mg/m ³	EH40 WEL (Sk)

8.2 Exposure controls

Appropriate engineering controls

Use in well ventilated areas. Use mechanical ventilation if possible.

Personal protective equipment

Eye/face Protection

Use equipment for eye protection tested and approved under appropriate standards such as EN 166.

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 good practices. 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. Recommended glove types include Butyl, PVA and Polythene gloves.

Body Protection

Wear suitable overalls or apron and change if contaminated.

Respiratory Protection

Where risk assessment in accordance with the hierarchy of controls established within the Chemical Agents Directive shows a requirement for respirators as a means of control, use a particulate filter type A.

Environmental exposure controls

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

a) Appearance	Form: Viscous red liquid
b) Odour	Characteristic
c) Odour Threshold	no data available
d) pH	not applicable
e) Melting point/freezing point	<0 °C
f) Initial boiling point	80-111 °C
g) Flash point	-9 °C
h) Evaporation rate	no data available
i) Flammability (liquid)	Highly Flammable
j) Upper/lower flammability or explosive limits	LEL 1.4%, UEL 12%
k) Vapour pressure	no data available
l) Vapour density	no data available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient (n- octanol/water)	no data available
p) Auto-ignition temperature	515-535 °C
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	None
t) Oxidizing properties	None

9.2 Other safety information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available on mixture.

10.2 Chemical stability

Expected to be stable at normal temperatures and under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

High temperature (>50 °C), sources of ignition & direct sunlight.

10.5 Incompatible materials

Oxidizing agents, strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD₅₀ (oral)/LD₅₀ (dermal)/LC₅₀ (inhalation): No acute lethal effects.

Skin corrosion/irritation

Skin - Skin irritation

Serious eye damage/eye irritation

Severe eye irritation

Respiratory or skin sensitisation

No known sensitisation potential.

Germ cell mutagenicity

No known mutagenic potential.

Carcinogenicity

IARC: No component of this product present (as supplied) at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Damage to foetus possible. Suspected human reproductive toxicant. Inhalation: Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Oral: Effects on Embryo or Foetus: Foetotoxicity (except death, e.g., stunted foetus).

Specific target organ toxicity - single exposure

Inhalation of vapours or mists may drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available on mixture. Not expected to pose an aspiration hazard.

Potential health effects

Inhalation Excessive inhalation of vapours, aerosols or mists may cause mild, transient respiratory tract irritation.

Ingestion May be harmful if ingested in quantity.

Skin. Repeated exposure may cause skin dryness or cracking.

Eyes May cause transient eye irritation.

Signs and Symptoms of Exposure

Lung irritation, chest pain, pulmonary oedema. Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.

Additional Information

Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

High concentrations may be harmful to aquatic organisms

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available. Not expected to bioaccumulate.

12.4 Mobility in soil

Expected to be mobile.

12.5 Results of PBT and vPvB assessment

No data available. Will not meet PBT or vPvB criteria.

12.6 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber. Material is classified as hazardous waste under the Hazardous Waste Regulations 2005. Contact a licensed professional waste disposal service to dispose of this material

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - 1993

IMDG: - 1993

IATA: - 1993

14.2 UN proper shipping name

ADR/RID:

FLAMMABLE LIQUID (Toluene/Butan-2-one solution)

IMDG:

FLAMMABLE LIQUID (Toluene/Butan-2-one solution)

IATA:

FLAMMABLE LIQUID (Toluene/Butan-2-one solution)

14.3 Transport hazard class(es)

ADR/RID: - 3

IMDG: - 3

IATA: - 3

14.4 Packaging group

ADR/RID: - II

IMDG: - II

IATA: - II

14.5 Environmental hazards

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

14.6 Special precautions for user

no data available

SECTION 15: REGULATORY INFORMATION

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

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

Health & Safety at Work etc. Act 1974

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009

Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)

EH40/2005 Workplace Exposure Limits (as amended)

Environmental Protection Act 1990

Hazardous Waste Regulations 2005 (as amended)

15.2 Chemical Safety Assessment

No data available.

SECTION 16. OTHER INFORMATION

Further information

Text of H-statements mentioned in Section 3

- H225 Highly flammable liquid and vapour
- H304 May be fatal if swallowed and enters airways
- H361d Suspected of damaging the unborn child
- H373i May cause damage to organs through prolonged or repeated exposure through inhalation
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- EUH066 Repeated exposure may cause skin dryness or cracking

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Revision history

Amendment to the original SDS dated 26/7/2012 to align SDS with requirements of alterations to safety data sheet layout in accordance with changes to EC1907/2006 (REACH) amendments and removal of references to SI:2009/716 (CHIP).

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Jay House Ltd. (Jay House). However, Jay House makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.