# Permanent Marker EK-17, EK-19 and EK-47

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Permanent Marker EK-17,EK-19 and EK-47

Product code EK-17,EK-19,EK-47 EKPR-PLM

CAS No.

EC No.

REACH Registration No.

Not applicable.

Not known.

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

Identified Use(s) Permanent marker.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification Shachihata Inc.

Address of Manufacturer 4-69, Amazuka-cho, Nishi-ku,

Nagoya City, 451-0021, Japan 451-0021 +81-52-521-3600

Fax +81-52-521-3899
E-mail chem-analysis@ngy.shachihata.co.jp

Office hours

Postal code

Telephone:

Fax E-mail

Postal code

Telephone:

Supplier

Company Identification Shachihata (Europe) Ltd Address of Supplier Unit 8 Ashville Way Sutton Weaver

Runcorn Cheshire WA7 3EZ 01928 790 844 01928 790 683 sales@shachihata.eu

09:00 - 17:00

Office hours

1.4 Emergency telephone number

Emergency Phone No. 01928 790844 (office hours)

Contact Ros Williams

### SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Permanent Marker EK-17,EK-19 and EK-47

Hazard Pictogram(s) None.

Signal Word(s) None.

Hazard Statement(s) None.

Precautionary Statement(s) None.

2.3 Other hazards

Sharp edges may cause injury.

2.4 Additional Information

None.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Articles for Marker . **3.1 Substances** 

Not applicable.

# 3.2 Mixtures

HAZARDOUS	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		Registration No.			Pictogram(s)
ethylbenzene	100-41-4	202-849-4	25-35	Flam. Liq. 2 H225	GHS02
		01-2119489370-35-XXXX		Asp. Tox. 1 H304	GHS08

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				Acute Tox. 4 H332 STOT RE 2 H373	GHS07
Xylene	1330-20-7	215-535-7 01-2119488216-32-XXXX		Flam. Liq. 3 H226 Acute Tox. 4 H312 Skin Irrit. 2 H315 Acute Tox. 4 H332	GHS02 GHS07
butan-1-ol n-butanol	71-36-3	200-751-6 01-2119484630-38-XXXX	15-25	Flam. Liq. 3 H226 Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335 STOT SE 3 H336	GHS02 GHS05 GHS07
4-(1,1,3,3- tetramethylbutyl)phenol	140-66-9	205-426-2 01-2119541687-29-XXXX	0.1-1	Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS05 GHS07 GHS09

# SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Not normally required.

Skin Contact Not normally required. Wash skin with water.

Eye Contact Not normally required. If contact with eyes directly, flush with gently flowing fresh

water thoroughly.

Ingestion Unlikely route of exposure.
4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

No special requirements.

# **SECTION 5: FIREFIGHTING MEASURES**

Non-flammable.

5.1 Extinguishing media

Suitable Extinguishing media Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable extinguishing media Do not use water jet.

5.2 Special hazards arising from the substance or mixture
None anticipated.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Not normally required.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Collect mechanically and dispose of according to Section 13.

6.4 Reference to other sections

See Also Section 8, 13.

# **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling

No special precautions are required for this product. Wash hands and exposed skin

after use

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient.

Storage life Stable under normal conditions.

Incompatible materials None known.

7.3 Specific end use(s)

Permanent marker.

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Xylene, o-,m-,p- or mixed isomers	1330-20-7	50	220	100	441	Sk, BMGV
Xylene, mixed isomers, pure	1330-20-7	50	221	100	442	IOELV, Skin
Ethylbenzene	100-41-4	100	441	125	552	Sk
Ethylbenzene	100-41-4	100	442	200	884	IOELV, Skin
Butan-1-ol	71-36-3			50	154	Sk

Region EU

Source EU Occupational Exposure Limits

United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark Notes

Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Biological monitoring guidance values are listed in Table 2. Indicative Occupational Exposure Limit Values. The possibility of significant uptake through the skin. **BMGV** Skin

Biological Exposure Indices								
Substances	CAS	Sampling	Tissues	Control	Biological monitoring	Comments		
	Number			parameters	guidance value			
Xylene, o-, m-, p- or	1330-20-7	650 mmol methyl hippuric	Post					
mixed isomers		acid/mol creatinine in urine	shift					

Notes Remark

8.2 Exposure controls

8.2.1. Appropriate engineering controls No special requirements.

8.2.2. Personal protection equipment

Eye Protection Not normally required.

Skin protection Not normally required.



Respiratory protection Normally no personal respiratory protection is necessary.



Thermal hazards Not applicable.

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance Solid.

Colour: Various. Odour Solvent odour. Odour threshold Not known. Not known. Melting point/freezing point Not known. Initial boiling point and boiling range Not applicable.

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Flash Point Not applicable.

Evaporation rate Not known.

Flammability (solid, gas) Non-flammable.

Upper/lower flammability or explosive Not known.

limits

Vapour pressure Not known.
Vapour density Not known.
Density (g/ml) Not known.
Relative density Not known.

Solubility(ies) Solubility (Water): Insoluble in water. Solubility (Other): Not known.

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition Temperature (°C)
Viscosity
Explosive properties
Oxidising properties
Not known.
Not known.
Not explosive.
Not oxidising.

9.2 Other information

None.

### SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

# SECTION 11: TOXICOLOGICAL INFORMATION

No hazard expected under normal conditions of use.

11.1 Information on toxicological effects

Acute toxicity - Ingestion Not classified.
Acute toxicity - Skin Contact Not classified.

Calculated acute toxicity estimate (ATE) Calc ATE - 3666.67000

Acute toxicity - Inhalation Not classified. Skin corrosion/irritation Not classified. Serious eye damage/irritation Not classified. Skin sensitization data Not classified. Respiratory sensitization data Not classified. Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Reproductive toxicity Not classified. Lactation Not classified. STOT - single exposure Not classified. STOT - repeated exposure Not classified. Aspiration hazard Not classified. 11.2 Other information

Not known.

# SECTION 12: ECOLOGICAL INFORMATION

# 12.1 Toxicity

Toxicity - Aquatic invertebrates Low toxicity to invertebrates.

Toxicity - Fish Low toxicity to fish.

Toxicity - Algae Low toxicity to algae.

Toxicity - Sediment Compartment Not classified.

Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and Degradation

Part of the components are biodegradable.

12.3 Bioaccumulative potential

No information on this formulation.

12.4 Mobility in soil

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Insoluble in water. The product is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

Not known.

# SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose at suitable refuse site.

13.2 Additional Information

No special precautions are required for this product.

#### SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

Not listed

### SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very 4-(1,1,3,3-tetramethylbutyl)phenol (140-66-9)

High Concern for Authorisation

REACH: ANNEX XIV list of substances Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the Xylene (1330-20-7), ethylbenzene (100-41-4), butan-1-ol n-butanol (71-36-3), 4-(1,1,3,3-tetramethylbutyl)phenol (140-66-9)

manufacture, placing on the market and

use of certain dangerous substances,

mixtures and articles

Community Rolling Action Plan (CoRAP) Xylene (1330-20-7), butan-1-ol (71-36-3)

Regulation (EC) N° 850/2004 of the

Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 1005/2009 on

substances that deplete the ozone layer

Not listed

Regulation (EU) N° 649/2012 of the

European Parliament and of the Council concerning the export and import of

hazardous chemicals

**National regulations** 

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

# SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

**LEGEND** 

Hazard Pictogram(s) None.

> GHS02: GHS: Flame GHS05: GHS: Corrosion

GHS07: GHS: Exclamation mark

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GHS08: GHS: Health hazard GHS09: GHS: Environment

Hazard classification

Flam. Liq. 2: Flammable liquid, Category 2
Flam. Liq. 3: Flammable liquid, Category 3
Acute Tox. 4: Acute toxicity, Category 4
Asp. Tox. 1: Aspiration hazard, Category 1
Acute Tox. 4: Acute toxicity, Category 4
Skin Irrit. 2: Skin corrosion/irritation, Category 2
Eye Dam. 1: Serious eye damage/irritation, Category 1

Acute Tox. 4: Acute toxicity, Category 4

STOT SE 3: Specific target organ toxicity — single exposure, Category 3
STOT SE 3: Specific target organ toxicity — single exposure, Category 3
STOT RE 2: Specific target organ toxicity — repeated exposure, Category 2
Aquatic Acute 1: Hazardous to the aquatic environment, Acute, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment, Chronic, Category 1

Hazard Statement(s)

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin. H315: Causes skin irritation.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s) Acronyms

None.

**CAS**: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures DNEL : Derived No Effect Level EC : European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

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