

# Safety Data Sheet

## Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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

#### 1.1. Product identifier

Versamark, Versamark Dazzle

#### **Further trade names / Item numbers**

001 (Versamark), 002 (Versamark Dazzle Frost), 003 (Versamark Dazzle Champagne)

UFI: K310-W0NN-U00W-NQ2H

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

##### **Use of the substance/mixture**

Ink

##### **Uses advised against**

No information available.

#### 1.3. Details of the supplier of the safety data sheet

Company name: TSUKINEKO Co., Ltd  
Street: 5F Suehiro JF Bldg., 5-1-5, Sotokanda Chiyoda-ku  
Place: Tokyo 101-0021, JAPAN  
Telephone: +81-3-3834-1080  
e-mail: [info@tsukineko.co.jp](mailto:info@tsukineko.co.jp)  
Internet: [www.tsukineko.co.jp](http://www.tsukineko.co.jp)  
Responsible Department: Product safety Mo-Fr (8:30-17:00 h)

#### 1.4. Emergency telephone number: +81-3-3834-1080

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### **GB CLP Regulation**

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### **GB CLP Regulation**

**Signal word:** Warning**Pictograms:**

##### **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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### Precautionary statements

P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of waste according to applicable legislation.

### Labelling of packages where the contents do not exceed 125 ml

**Signal word:** Warning

**Pictograms:**



### Precautionary statements

P102-P501

### 2.3. Other hazards

Results of PBT and vPvB assessment: not applicable

Endocrine disrupting properties: No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Solvents, binder (resin), emulsifier, effect pigments, additives

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1338-39-2	Sorbitan laurate			15-20%
	215-663-3			
	Skin Irrit. 2, Aquatic Chronic 3; H315 H412			
25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (PEG 200-600)			10-15%
	500-038-2		01-2119958801-32	
	Eye Irrit. 2; H319			
7440-22-4	Silver			<2%

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	231-131-3		01-2119555669-21	
	Occupational exposure limit value according to Directive 2000/39/EC			

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
25322-68-3	500-038-2	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (PEG200-600)	10-15%
	dermal: LD50 $\geq$ 2000 mg/kg; oral: LD50 $\geq$ 2000 mg/kg		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice.

#### After inhalation

Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth thoroughly with water.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, carbon dioxide, extinguishing powder, foam, dry sand

#### Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

This material is combustible, but will not ignite readily. Vapours can form explosive mixtures with air. In case of fire

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may be liberated: carbon monoxide, carbon dioxide, metal oxide smoke

### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus.

Co-ordinate fire-fighting measures to the fire surroundings.

### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Do not allow to enter into surface water or drains.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **General advice**

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid contact with skin, eyes and clothes.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

### **6.3. Methods and material for containment and cleaning up**

#### **For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

#### **Other information**

To clean the floor and all objects contaminated by this material, use plenty of water.

Provide adequate ventilation.

### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide adequate ventilation.

Handle and open container with care.

#### **Advice on protection against fire and explosion**

Remove all sources of ignition.

#### **Advice on general occupational hygiene**

Wash hands before breaks and after work.

When using do not eat or drink.

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### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

Store in a cool dry place.

Ensure adequate ventilation of the storage area.

#### Hints on joint storage

No special measures are necessary.

### 7.3. Specific end use(s)

Ink

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
12001-26-2	Mica, respirable	-	0.8		TWA (8 h)	WEL
12001-26-2	Mica, total inhalable	-	10		TWA (8 h)	WEL
-	Silica, amorphous, respirable dust	-	2.4		TWA (8 h)	WEL
7440-22-4	Silver, metallic	-	0.1		TWA (8 h)	WEL

#### DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (PEG 200-600)			
Worker DNEL, long-term	inhalation	systemic	40.2 mg/m <sup>3</sup>	
Worker DNEL, long-term	dermal	systemic	112 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	7.14 mg/m <sup>3</sup>	
Consumer DNEL, long-term	dermal	systemic	40 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	40 mg/kg bw/day	
7440-22-4	Silver			
Worker DNEL, long-term	inhalation	systemic	7.6 $\mu$ g/m <sup>3</sup>	
Worker DNEL, long-term	inhalation	local	7.6 $\mu$ g/m <sup>3</sup>	
Consumer DNEL, long-term	inhalation	systemic	2.3 $\mu$ g/m <sup>3</sup>	
Consumer DNEL, long-term	inhalation	local	2.3 $\mu$ g/m <sup>3</sup>	
Consumer DNEL, long-term	oral	systemic	0.11 mg/kg bw/day	

#### PNEC values

CAS No	Substance	
Environmental compartment	Value	

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25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (PEG 200-600)	
Freshwater		273 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		27.3 mg/l
Marine water r (intermittent releases)		0.1 mg/l
Freshwater sediment		1030 mg/kg
Marine sediment		103 mg/kg
Soil		46.4 mg/kg
7440-22-4	Silver	
Freshwater		0.04 $\mu$ g/
Marine water		0.86 $\mu$ g/l
Freshwater sediment		438.13 mg/kg
Marine sedimen		438.13 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.025 mg/l
Soil		1.41 mg/kg

### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Tightly sealed safety glasses.

##### Hand protection

Wear protective gloves. 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.

##### Skin protection

Apron, boots

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	whitish - silvery

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Odour:	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability	not determined
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	>64.5 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not applicable
Water solubility(at 20 °C):	insoluble
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	~ 1 g/cm <sup>3</sup>
Relative vapour density:	not determined

#### **9.2. Other information**

##### **Information with regard to physical hazard classes**

Explosive properties

The product is not explosive.

Oxidizing properties

The product is not oxidising.

##### **Other safety characteristics**

Evaporation rate: not determined

Solvent content: organic solvents: 4 - 5 %

Solid content: not determined

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

### **10.2. Chemical stability**

The product is stable at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

No known hazardous reactions.

### **10.4. Conditions to avoid**

No information available.

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### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (PEG 200-600)				
	oral	LD50 > 2000mg/kg	Rat	IUCLID	OECD 423
	dermal	LD50 >2000mg/kg	Rat	IUCLID	OECD 402

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

### 11.2. Information on other hazards

#### Endocrine disrupting propertie

No information available.

#### Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method



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1338-39-2	Sorbitan laurate					
	Acute fish toxicity	LC50 66 mg/l	96 h	Cyprinus carpio	Supplier	
25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (PEG 200-600)					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Poecilia reticulata	IUCLID	OECD 203
	Acute algae toxicity	EC50 >100 mg/l	96 h	Scenedesmus sp.	IUCLID	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna	IUCLID	OECD 202
	Acute bacteria toxicity	(EC50 2774 mg/l)	48 h	Chilomonas paramecium	IUCLID	

### **12.2. Persistence and degradability**

Some of the components are poorly biodegradable. Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (PEG 200-600)				
	OECD 301D	74.85%	28	IUCLID	
	Readily biodegradable (according to OECD criteria).				

### **12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
25322-68-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (PEG 200-600)	-0.698

### **12.4. Mobility in soil**

The product has not been tested.

### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

### **12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### **12.7. Other adverse effects**

No information available.

### **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

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Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Completely emptied packages can be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

#### **14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

#### **14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

### SECTION 15: Regulatory information

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

##### EU regulatory information

Information according to 2012/18/EU(SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC)

Water hazard class (D): 1 - slightly hazardous to water

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### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Changes

Revised due to Regulation (EU) No 2020/878

### Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

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IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### Key literature references and sources for data

Registration Dossier according to Regulation (EC) No. 1907/2006 [REACH].

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

### Relevant H and EUH statements (number and full text)

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

### Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AR	TF	Specification
1	Inks and toners	C	-	18	-	-	-	-	Ink

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*