

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
 Internet: www.tsukineko.co.jp
 Responsible Department: Product safety Mo-Fr (8:30-17:00 h)



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

Australian Importer Information

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.

Safety Data Sheet

Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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), α -hydro- ω -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%

Safety Data Sheet

Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

	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), α -hydro- ω -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

Safety Data Sheet
Versamark, Versamark Dazzle
according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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.

Safety Data Sheet

Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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 ³	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), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated (PEG 200-600)			
Worker DNEL, long-term	inhalation	systemic	40.2 mg/m ³	
Worker DNEL, long-term	dermal	systemic	112 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	7.14 mg/m ³	
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 μ g/m ³	
Worker DNEL, long-term	inhalation	local	7.6 μ g/m ³	
Consumer DNEL, long-term	inhalation	systemic	2.3 μ g/m ³	
Consumer DNEL, long-term	inhalation	local	2.3 μ g/m ³	
Consumer DNEL, long-term	oral	systemic	0.11 mg/kg bw/day	

PNEC values

CAS No	Substance	
Environmental compartment	Value	

Safety Data Sheet

Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

25322-68-3	Poly(oxy-1,2-ethanediyl), α -hydro- ω -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 μ g/
Marine water		0.86 μ 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

Safety Data Sheet

Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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 ³
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.

Safety Data Sheet
Versamark, Versamark Dazzle
 according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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), α -hydro- ω -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

Safety Data Sheet

Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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), α -hydro- ω -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), α -hydro- ω -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), α -hydro- ω -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

Safety Data Sheet

Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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)

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

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

Air transport (ICAO-TI/IATA-DGR)

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

Safety Data Sheet
Versamark, Versamark Dazzle
 according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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

Safety Data Sheet

Versamark, Versamark Dazzle

according to UK REACH Regulation

Date: 30.03.2020

Revision date: 06.09.2023

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

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