TCT 通测检测 TESTING CENTRE TECHNOLOGY

Safety Data Sheet（SDS）

Prepared For:	Yiwu Thousand Shores E-business Co.,LTD. 9th Floor, Building NO.3, Lugang E-commerce Town, 315 Hongyun "Road, Chengxi Street, Yiwu City, Zhejiang Province, China
Product Name:	Art Markers & Marker Ink
Model:	Oahu-01, Honolulu-02, Honolulu B-02, Molokai-03, OH-INK-01
Client Reference Information:	481 colors
Trade：	Ohuhu
Prepared By:	Shenzhen TCT Testing Technology Co., Ltd. 2101,2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Street, Bao'an District, Shenzhen
No.:	TCT220610W005

Checked by

Justin

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SHENZHEN TCT TESTING TECHNOLOGY CO. LTD TCT

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Safety Data Sheet
Regulation (EC) No 1907/2006& (EU) No 2015/830

No. : TCT220610W005 Date: Jun. 15, 2022 Page No: 1/13

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

Product identifier

Product Name	Art Markers & Marker Ink
Cat No.	Not applicable
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-

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

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Yiwu Thousand Shores E-business Co.,LTD.
Address of the company	9th Floor, Building NO.3, Lugang E-commerce Town, 315 Hongyun "Road, Chengxi Street, Yiwu City, Zhejiang Province, China
Post code	——
Telephone number	13717166384
Fax number	——
E-mail address	——

Emergency phone number

Emergency phone number	

2 Hazards identification

CLP classification according to Regulation (EC) No. 1272/2008

Sensitization – Skin	Category 1
Specific Target Organ Toxicity (Single Exposure)	Category 3
Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard	Category 3

Label elements

Hazard pictograms	

Signal word	**Warning**

Hazard statements

H317	May cause an allergic skin reaction
H336	May cause drowsiness or dizziness
H412	Harmful to aquatic life with long lasting effects

Precautionary statements

◆ Prevention

P261	Avoid breathing gas/mist/vapour/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

◆ Response

P312	Call a POISON CENTRE/ doctor/... if you feel unwell.
P321	Specific treatment (see related instructions on this label).
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

◆ Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

Other hazards

	Not applicable

3 Component

Component	Cas No.	EC No.	Index No.	Hazard classification according to CLP	Concentration (weight percent, %)
Ethanol	64-17-5	200-578-6	603-002-00-5	Flammable Liquids ,	55.5~85

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				Category 2 , H225	
1-methoxypropan-2-ol	107-98-2	203-539-1	603-064-00-3	Flammable Liquids , Category 3 , H226 ; Specific Target Organ Toxicity (Single Exposure) , Category 3 , H336	10~25
Rosin	8050-09-7	232-475-7	650-015-00-7	Sensitization – Skin , Category 1 , H317	5~10
2-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]-1,3-dimethyl-1H-benzimidazolium chloride	29556-33-0	249-694-9	-	Acute Toxicity – Oral , Category 4 , H302 ; Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard , Category 2 , H411	0~9.5
C.I.Basic Yellow 28	54060-92-3	258-946-7	-	Acute Toxicity – Oral- Category 3 H301; Acute toxicity, dermal- Category 4,H312;Serious eye damage/eye irritation- Category 1,H318 Acute Toxicity – Oral , Category 4 , H302 ; Hazardous to the aquatic environment, acute hazard- Category 1,H400; Hazardous to the aquatic environment, long-term hazard- Category 1, H410	0~4.6
C.I. Basic Red 1	989-38-8	213-584-9	-	Serious eye damage/eye irritation- Category 1,H318 Acute Toxicity – Oral , Category 4 , H302 ;	0~5
C.I.Solvent Blue 136	359630-27-6	414-110-5	-	Serious eye damage/eye irritation- Category 1,H318 Hazardous to the aquatic environment, acute hazard- Category 1,H400; Hazardous to the aquatic environment, long-term hazard- Category 1, H410	0~3.6
C.I.Solvent Blue 70	12237-24-0	602-674-7	-	Long-Term (Chronic) Hazard , Category 3 , H412	0~5.6
C.I.Solvent Black 27	12237-22-8	602-672-6	-	Sensitization – Skin , Category 1 , H317 ; Reproductive toxicity-	0~8.8

				Category 1A,H360; Specific target organ toxicity, repeated exposure- Category 2, H373	

Remark: Only one color additive, C.L.Basic Yellow 40, methyl sulfate (29556-33-0), is selected from the product components to participate in the evaluation. Other color additives can refer to this evaluation.

4 First aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Refer for medical attention.
Inhalation	Fresh air , rest.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Firefighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment,do not breathe gas/mist/vapour/spray.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7 Handling and storage

Precautions for handling

Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.

Measures to prevent aerosol and dust generation

1	Not applicable.

Advice on general occupational hygiene

1	Wash hands and face after using of the substances.
2	Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

Specific end uses

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.

8 Exposure controls/personal protection

Control parameters

◆ Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Ethanol 64-17-5	USA - OSHA	1000	1900	-	-
	South Korea	1000	1900	-	-
	Ireland	-	-	1000	-
	Germany (AGS)	500	960	1000	1920
	Denmark	1000	1900	2000	3800
	Australia	1000	1880	-	-
1-methoxypropan-2-ol 107-98-2	USA - NIOSH	100	360	150	540
	South Korea	100	360	150	540
	Ireland	100	375	150	568
	Germany (AGS)	100	370	200	740
	Denmark	50	185	100	370
	Australia	100	369	150	553
Rosin 8050-09-7	New Zealand	-	-	-	-
	Latvia	-	4	-	-
	Canada - Québec	-	0.1	-	-
	Canada - Ontario	-	-	-	-

◆ Biological limit values

Biological limit values	No relevant regulations

◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 series standard Determination of toxic substances in workplace air.

◆ Derived No effect level(DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects(local)	Acute effects(systemic)	Chronic effects(local)	Chronic effects(systemic)
Ethanol 64-17-5	Inhala on	No data available	No data available	No data available	950 mg/m3
	Oral	No data	No data	No data	No data

		available	available	available	available
	Dermal	No data available	No data available	No data available	No data available
1-methoxypropan-2-ol 107-98-2	Inhala on	No data available	No data available	No data available	369 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Rosin 8050-09-7	Inhala on	No data available	No data available	No data available	117 mg/m3
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]-1,3-dimethyl-1H-benzimidazolium chloride 29556-33-0	Inhala on	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

◆ Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	No information available

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties

Physical and chemical properties

Appearance	Liquid
Odor	No information available

Odor threshold	No information available
pH	No information available
Melting point/freezing point(℃)	No information available
Initial boiling point and boiling range(℃)	No information available
Flash point(Closed cup,℃)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit：No information available；Lower limit：No information available
Vapor pressure	No information available
Vapor density(Air＝1)	No information available
Relative density(Water=1)	No information available
Solubility(mg/L)	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(℃)	No information available
Decomposition temperature(℃)	No information available
Viscosity(mm^2/s)	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Particle characteristics	Not applicable

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with oxidants causes severe reactions, and may cause a fire or explosion.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	Cas No.	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
1-methoxypropan-2-ol	107-98-2	11700mg/kg(Mouse)	13000mg/kg(Rabbit)	No information

				available
Ethanol	64-17-5	7060mg/kg(Rat)	No information available	39mg/L(Mouse)

Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	64-17-5	Ethanol	Category 1	Not Listed
2	107-98-2	1-methoxypropan-2-ol	Not Listed	Not Listed
3	8050-09-7	Rosin	Not Listed	Not Listed
4	29556-33-0	2-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]-1,3-dimethyl-1H-benzimidazolium chloride	Not Listed	Not Listed

Others

Art Markers	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	May cause an allergic skin reaction(Category 1)
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	May cause drowsiness or dizziness(Category 3)
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
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Ethanol	64-17-5	LC_{50} : 11000mg/L (96h)(Fish)	EC_{50} : 9950mg/L (48h)(Crustaceans)	No information available

Chronic aquatic toxicity

Chronic aquatic toxicity	No information available

Persistence and degradability

Component	Cas No.	Persistence (water/soil)	Persistence (air)

Ethanol	64-17-5	Low(Half-life = 2.17 days)	Low(Half-life = 5.08 days)
1-methoxypropan-2-ol	107-98-2	Low(Half-life = 56 days)	Low(Half-life = 1.7 days)

Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
Ethanol	64-17-5	Low	Log Kow=-0.31
1-methoxypropan-2-ol	107-98-2	Low	BCF=2

Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Ethanol	64-17-5	High	1
1-methoxypropan-2-ol	107-98-2	High	1

Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 2015/830)
Ethanol	64-17-5	Not PBT/vPvB
1-methoxypropan-2-ol	107-98-2	Not PBT/vPvB
Rosin	8050-09-7	Not PBT/vPvB
2-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]-1,3-dimethyl-1H-benzimidazolium chloride	29556-33-0	Not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label	Not applicable

IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

ICAO/IATA-DGR

ICAO/IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
Ethanol	√	√	√	√	√	√	√	√	√
1-methoxypropan-2-ol	√	√	√	√	√	√	√	√	√
Rosin	√	√	√	√	√	√	√	√	×
2-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]-1,3-dimethyl-1H-benzimidazolium chloride	√	√	×	√	√	√	×	√	×

【EINECS】 European Inventory of Existing Commercial Chemical Substances
【TSCA】 United States Toxic Substances Control Act Inventory
【DSL】 Canadian Domestic Substances List
【IECSC】 China Inventory of Existing Chemical Substances
【NZIoC】 New Zealand Inventory of Chemicals
【PICCS】 Philippines Inventory of Chemicals and Chemical Substances
【KECI】 Korea Existing Chemicals Inventory
【AIIC】 Australia. Inventory of Industrial Chemicals (AIIC)
【ENCS】 Japan Inventory of Existing & New Chemical Substances

European chemical inventory

Component	A	B	C	D	E	F	G
Ethanol	×	×	√	√	√	×	×
1-methoxypropan-2-ol	×	×	√	√	√	×	×
Rosin	×	×	×	√	√	×	×
2-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]-1,3-dimethyl-1H-benzimidazolium chloride	×	×	×	√	×	×	×

【A】 Candidate list of Substances of Very High Concern for authorization under EU REACH regulation

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【B】 Substances requiring authorisation under EU REACH regulation
【C】 Substances restricted under EU REACH
【D】 Pre-registered substances under EU REACH
【E】 Registered substances under EU REACH
【F】 Substance Evaluation – CoRAP under EU REACH
【G】 List of priority substances under EU water policy （Directive 2455/2001/EC）

Note
"√" Indicates that the substance included in the regulations
"×" That no data or included in the regulations

16 Others

Information on revision

Creation Date	2022/06/15
Revision Date	2022/06/15
Reason for revision	-

Reference

[1]IPCS:The International Chemical Safety Cards (ICSC) ,website: http://www.ilo.org/dyn/icsc/showcard.home.
[2]IARC , website: http://www.iarc.fr/.
[3]OECD: The Global Portal to Information on Chemical Substances, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.
[4]CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
[5]NLM:ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
[7]U.S. Department of Transportation:ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
[8]Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS –Chemical Abstracts Service
PC-STEL- Short term exposure limit
DNEL - Derived No E ect Level
RPE - Respiratory Protec ve Equipment
LC_{50} - Lethal Concentra on 50%
NOEC -No Observed E ect Concentra on
PBT - Persistent, Bioaccumula ve, Toxic
BCF - Bioconcentra on factor (BCF)
IMDG-Interna onal Mari me Dangerous Goods
CMR - Carcinogens, mutagens or substances toxic to reproduc on
PC-TWA - Time Weighted Average
IARC - Interna onal Agency for Research on Cancer
PNEC –Predicted No E ect Concentra on
LD_{50} - Lethal Dose 50%
EC_{50} - E ec ve Concentra on 50%
POW - Par on coe cient Octanol:Water
vPvB - very Persistent, very Bioaccumula ve
ICAO/IATA-Interna onal Civil Avia on Organiza on/Interna onal Air Transporta on Associa on

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UN-The United Na ons

NFPA-Na onal Fire Protec on Associa on

ACGIH-American Conference of Governmental Industrial Hygienists

OECD-Organiza on for Economic Co-opera on and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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