SAFETY DATA SHEET

Date Revised: 27/Nov/2019

1. Identification of the substance / preparation and of the company

Product : TEXTMARK 880SR
Color : Black, Red, Blue, Green
Company : Teranishi Chemical Industry Co., Ltd.
13-11, Ikue 2-chome, Asahi-ku, Osaka 535-0004, Japan
Tel : +81 6 6928 3101
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E-mail : export@guitar-mg.co.jp

Product use : Marking Pen (oil based ink)

2. Hazards identification

Classification
Exposure of hazardous substances are not expected under general use of marking pen.

Hazrad statements : If the ink is contact with skin and eyes, may causes mild irritation. In case of inadequate ventilation, there is a case in which you become unwell for a long time use.
Other hazards : This products are contain a small volume of ink which is a flammable liquid. The ink is highly flammable liquid and vapour.

Precautionary Statements :
Do not handle until all safety precautions have been read and understood.
Use only in the well-ventilated areas. Recap after use.
Do not rough randling, drop, shaking.
Keep out of reach of children.
Keep cool and protect from sunlight. Keep away from hot surfaces.
Do not eat, drink or smoke when using this product.
If on skin: Wash with soap and water.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes.
If eye irritation persists, get medical advice/attention.
If you feel unwell or skin irritation occurs, get medical advice/attention.
Wash thoroughly after handling.
Keep away from ignition sources such as heat/sparks/open flame.
Do not throw into fire even used up.
Avoid release to the environment. – if this is not the intended use. Dispose in accordance with local state and federal regulations.

[GHS Classification] Not classified
※Assume the general use of oily marking pen.
In case of industrial use, it may be subject to any regulation.
Therefore in case of any special usage, sufficient attention is required irrespective with classification of users.

3. Composition / Information on ingredients

For ink unless otherwise specified.
CHEMICAL PRODUCT : Mixture (Oil based ink for marking pen)

Ingredients	CAS No.	% BY WEIGHT			
		Black	Red	Blue	Green
Nonane	111-84-2	23	23	24	23
Octane	111-65-9	43	44	44	43
Naphtha(petroleum),hydrotrested heavy	64742-48-9	7	7	7	7
Oleic acid	112-80-1	5	—	—	—
Resins	26335-33-1	13	5	15	5
	68480-36-4	1	14	6	12
Oil dye	8005-02-5	8	—	—	—
	509-34-2	—	1	—	—
	85029-61-4	—	3	—	—
	6375-55-9	—	2	—	3
	1325-86-6	—	—	2	—
Copper compounds [oil dyes]	12237-24-0	0.1	—	1	6
Addition-agent etc.	140-66-9	0.32	0.84	0.31	0.73
	98-54-4	0.1	0.15	<0.01	0.15
	106215-02-5	0.4	0.1	0.4	0.4
	62-53-3	0.04	—	—	—
	122-39-4	0.18	—	—	—

(specifications of the ink formulation)

Impurities (The chemical listed by Japanese regulations. Their concentration is 0.01% or more.)

4-(2,4,4-Trimethylpentan-2-yl)phenol (4-(1,1,3,3-tetramethylbutyl)phenol) (140-66-9)	Black 0.32%, Red 0.84%, Blue 0.31%, Green 0.73%
4-tert-Butylphenol (98-54-4)	Black 0.01%, Red 0.15%, Blue<0.01%, Green 0.15%
Aniline (62-53-3)	Black 0.04%
Diphenyl amine (122-39-4)	Black 0.18%

4. First aid measures

INHALATION : Remove victim to fresh air and keep at rest in a position comfortable for breathing. The nasal cavity and the mouth are washed by gargle etc. Medical attention is received if necessary.

SKIN CONTACT : Wash skin with plenty of soap and water. Wash contaminated clothing before use. If irritation is continued, get medical attention.

EYE CONTACT : Rinse cautiously with water for several minutes. If eye irritation persists, get medical attention.

INGESTION : Rinse mouth with water or wet towel. Never give anything by mouth to an unconscious person. Immediate induce vomiting unless the victim is unconscious. Immediately call a doctor/physician.

5. Fire-fighting measures

This products are contain a small volume of ink which is a flammable liquid.

Extinguishing media : Dry chemical powder, carbon dioxide, foam, water fog etc.
Inappropriate extinguishing media : Straight streams of water
Specific hazards : Heating may induce explosion of containers(pen body).
Specific fire-fighting : For a fire that has just started, use regular dry chemical Powder, carbon dioxide, foam.

Sprinkle water, if any other fire-fighting procedures are unlikely to be effective in a large fire.
Move containers away from the fire if safe to do so.
Fight fire from the most distant place within the effective range using unmanned hoses or monitored nozzles.
Cool surrounding combustible containers to a safe place.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures :
Do not get in eyes or on skin. Ventilate area. Wear suitable protective equipment.
Environmental precautions : Avoid release to the environment.
Cleanup methods : Wipe up the spilt ink with absorbent material(cloth etc.).

7. Handling and storage

HANDLING : Avoid contact with skin or eyes. Avoid rough handling. Recap after use.
Use only in the well-ventilated areas.
Do not treat near the fire, the spark, and the high temperature.
Do not eat, drink or smoke when using this product.
STORAGE : Keep away from sunlight. Keep cool and dry in a well-ventilated area.
Keep away from reach of children. Close the cap.
Keep away from ignition sources such as heat/sparks/open flame.

8. Exposure controls / Personal protection

Exposure limits : ACGIH(2014) TLV

Nonane	111-84-2	TWA 200ppm
Octane	111-65-9	TWA 300ppm

Engineering controls : Use only in the well-ventilated areas.
Personal protective equipment : Avoid the contact of ink to skin or eyes.
Sanitation : Wash hands, gargle thoroughly after handling.

9. Physical and chemical properties

For ink unless otherwise specified

PHYSICAL STATE : liquid
ODOR : Solvent odor
Relative density : about 0.9
Flash point : below 10℃
Ignition point : 205.0℃(Nonane), 206℃(Octone)
Boilng point : −274℃(Nonane), −56.76℃(Octane)
Percent volatile by volume : 79 - 86%
Vapor pressure : 0.42kPa(20℃, Nonane), 67.1mbar(50℃, Octane)
Vapor density : 4.4(Nonane), 3.9(Octane)
Flammability limits (% by volume) : 0.8 - 2.9 % (Nonane), 1.0 - 6.5 % (Octane)
Solubility in water : Insoluble(Dry, Resin)

10. Stability and reactivity

Not data available : Stable under normal conditions of use.
However, the ink is flammable liquid(vapor) with low flashing point.

11. Toxicological information

For Ink : Not data available

For ingredients (Reference information)
GHS HEALTH HAZARDS(Japan' s classification)

Octane :	Skin corrosion/irritation [Category 2]
	Serious eye damage/ eye irritation [Category 2]
	Specific target organ toxicity - Single exposure [Category 3 (Respiratory tract irritation, Paralysis action)]
	Aspiration hazard [Category 1]
Nonane :	Acute toxicity(Inhalation: Vapours) [Category 4]
	Skin corrosion/irritation [Category 2]
	Serious eye damage/ eye irritation [Category 2B]
Diphenyl am ine :	Serious eye damage/ eye irritation [Category 1]
	Reproductive toxicity [Category 2]
	Specific target organ toxicity - Single exposure [Category 1 (Central nervous system , blood system), Category 3 (Respiratory tract irritation)]
	Specific target organ toxicity - Repeated exposure [Category 2 (blood system , kidney)]
Aniline :	Acute toxicity(Oral) [Category 4]
	Acute toxicity(Dermal) [category 3]
	Acute toxicity(Inhalation: Vapours) [Category 2]
	Acute toxicity(Inhalation: Dust,Mist) [Category 4]
	Serious eye damage/ eye irritation [Category 2A]
	Skin sensitization [Category 1]
	Germ cell mutagenicity [Category 2]
	Carcinogenic [Category 2]
	Specific target organ toxicity - Single exposure [Category 1 (blood system , Systemic toxicity)]

	Specific target organ toxicity - Repeated exposure [Category 1 (blood system , Systemic toxicity)]
4-(2,4,4-Trimethylpentan-2-yl)phenol (4-(1,1,3,3-tetramethylbutyl)phenol)	Acute toxicity(Dermal) [category 4] Serious eye damage/ eye irritation [Category 2A] Reproductive toxicity [Category 2] Specific target organ toxicity - Single exposure [Category 3 (Respiratory tract irritation)] Specific target organ toxicity - Repeated exposure [Category 2 (liver,kidney)]
4-tert-Butylphenol	Serious eye damage/ eye irritation [Category 1] Skin sensitization [Category 2] Reproductive toxicity [Category 2] Specific target organ toxicity - Single exposure [Category 3 (Respiratory tract irritation)]

12. Ecological information

For Ink : Not data available

For ingredients (Reference information)
GHS HEALTH HAZARDS(Japan' s classification)

Octane :	Hazardous to the aquatic environment(Acute) [Category 1] Hazardous to the aquatic environment(Long-term) [Category 2]
Nonane :	Hazardous to the aquatic environment(Acute) [Category 1] Hazardous to the aquatic environment(Long-term) [Category 1]
Diphenyl amine :	Hazardous to the aquatic environment(Acute)[Category 1] Hazardous to the aquatic environment(Long-term) [Category 1]
Aniline :	Hazardous to the aquatic environment(Acute) [Category 1] Hazardous to the aquatic environment(Long-term) [Category 1]
4-(2,4,4-Trimethylpentan-2-yl)phenol: (4-(1,1,3,3-tetramethylbutyl)phenol) 4-tert-Butylphenol	Hazardous to the aquatic environment(Acute) [Category 1] Hazardous to the aquatic environment(Long-term) [Category 1]
Copper compunds (Blue) :	Hazardous to the aquatic environment(Acute) [Category 3] Hazardous to the aquatic environment(Long-term) Category 3]

13. Disposal considerations

Dispose in accordance with local state and federal regulations.

14. Transport information

Protect from sunlight, keep away from heat, Note the water wet.
Avoid rough handling.
Comply with national and local regulations.
Road transport regulations(Japan) : Not applicable
As according to the regulations of the Ship Safety Act/ Civil Aeronautics Act.

General name : Marking Pen

The amount of filling ink : Black 18.0g per piece
(The ink is held within an absorbent material.)

15. Regulatory information

Follow all regulations in your countries.

16. Other informations

Substances do not directly mean legally regulated.
It depands on use and other conditions.

To the best of our knowledge, the information contained here in accurate.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards are described herein, we cannot guarantee that these are the only hazards that exist.