

Solid drawing material

Set Up Date March 13, 2015

Safety Data Sheet

Reference number WS-02-E

1. PRODUCT & COMPANY IDENTIFICATION

- WRITING INSTRUMENT NAME Weathering Stick
Colour: SNOW, SAND, MUD, LIGHT EARTH
- NAME OF MANUFACTURER/SUPPLIER PILOT CORPORATION
- ADDRESS 2-6-21, Kyobashi, Chuo Ward, Tokyo
104-8304, Japan
- TELEPHONE NUMBER 03-3538-3700
- SECTION SHONAN KAIHATU CENTER
- PERSON IN CHARGE Hiroyuki Mizuishi
- TELEPHONE NUMBER 0463-35-8000
- FAX NUMBER 0463-35-7917
- URGENT CONTACT 0463-35-8030

2. HAZARD IDENTIFICATION

【GHS LABEL ELEMENT】



DANGER

【CAUTION WORD】

【GHS CLASSIFICATION】

PHYSICAL HAZARDS

HEALTH HAZARDS

COLOUR : SNOW

SERIOUS EYE DAMAGE /EYE IRRITATION

Category 2 : Causes serious eye irritation

COLOUR : SAND, MUD, LIGHT EARTH

SERIOUS EYE DAMAGE /EYE IRRITATION

Category 2 : Causes serious eye irritation

CARCINOGENICITY

Category 2 : Suspected of causing cancer

ENVIRONMENTAL HAZARDS

COLOURS:4 colours

HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE)

Category 3 : Harmful to aquatic life

【OTHER HAZARDS】

PHYSICAL HAZARDS

HEALTH HAZARDS

COLOUR : 4 colours

If swallow or inhale, may cause hazardousness.

If breaths in dusts for long time, may cause pneumoconiosis.

If on mucous membrane and skin, may cause irritation.

PRECAUTIONARY STATEMENTS

【SAFETY MEASURE】

Obtain special introductions before use.

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

Use personal protective equipment as required.

Wear protective gloves.

Wash hands thoroughly after handling.

Avoid release to the environment.

【STORAGE】

Store in a well-ventilated and a dry place. Store in a closed container.

Protect from sunlight. Keep cool under 50°C and do not expose to temperatures exceeding 50°C.

Keep away from heat source and fire.

【RESPONSE】

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs, get medical advice/attention.

IF SWALLOWED: Rinse mouth and get medical advice/attention. Do NOT induce vomiting.

IF EXPOSED OR MAY BE EXPOSED : Get medical advice/attention.

3. COMPOSITION/information on ingredients

A single substance or Mixture : Mixture

UNIT (WEIGHT%)

SUBSTANCE	CAS No	MITI No	SNOW	SAND	MUD	LIGHT EARTH
Pigment Yellow 93	5580-57-4	5-3172	—	0.7	2.5	0.6
Pigment Brown 23	32869-64-8	5-3324	—	0.3	2.2	0.9
Carbon Black	1333-86-4	5-3328	—	0.1	0.5	0.3
Titanium dioxide	13463-67-7	1-558	30.8	19.6	19.6	19.5
Aluminum hydroxide	21645-51-2	1-17	—	1.0	1.0	1.0

SUBSTANCE	CAS No	MITI No	SNOW	SAND	MUD	LIGHT EARTH
Silicic acid	1348-98-2	1-548	—	2. 0	2. 0	2. 0
Acrylic acid resin	25609-90-9	6-188	—	0. 3	1. 6	0. 6
1,2-Benzoisothiazolin-3-one	2634-33-5	9-1845	—	0. 0	0. 0	0. 0
Glycerol	56-81-5	2-242	2. 5	3. 7	3. 5	4. 2
Propylene Glycol	57-55-6	2-234	4. 4	—	—	—
Diethanol amine	111-42-2	2-302	—	0. 1	0. 3	0. 1
Polyoxyethylene derivative	REGISTERED	REGISTERED	1. 1	—	—	—
Poly sodium carbonate	REGISTERED	REGISTERED	1. 1	—	—	—
Polyethylene glycol	25322-68-3	7-129	1 1. 4	1 2. 0	1 1. 0	1 1. 9
Fatty acid sodium salt	67701-11-5	2-611	1 6. 6	1 7. 7	1 7. 4	1 7. 6
Water	7732-18-5		3 2. 1	4 2. 9	3 8. 3	4 1. 3

Fatty acid sodium salt contains 45wt% of stearic acid sodium salt

4. FIRST-AID MEASURES

- If inhale : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If feeling ill symptoms, get medical advice/attention.
- If on skin : Wash with plenty of soap and water. If irritation occurs, get medical advice/attention.
- If in eye : Measuring according to【RESPONSE】in「PRECAUTIONARY STATEMENTS」.
- If swallow : Measuring according to【RESPONSE】in「PRECAUTIONARY STATEMENTS」.

5. FIRE-FIGHTING MEASURE

- How to extinguish : Use digestive.
- Suitable extinguishing media : Water, powder, dry sand, cloth made of glass fiber.
- Unsuitable extinguishing media : No knowledge.
- Hazards in firing : No knowledge.
- Way of extinguishment (specific way) : Similar to standard case of fire
- Protective equipment : Wear protective equipment (fireproof clothes and mask) : similar to standard case of fire
- Others : In case of fire, may generate irritative, poisonous and corrosive gases.
And digestive may cause contamination.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Use glove tolerable against organic solvents, safety glasses, protective clothes and mask tolerable against organic solvents.

Avoid inhaling and contacting to eyes, skin and mucous membrane.

Environmental precautions

Do not release to environment.

Take care not to eject to river system and not to affect environment.

Methods and materials for containment and cleaning up

Use personal protective equipment as required and prevent leak.

Collect with metal scoop ,not causing fire, or broom ,not accumulate static electricity, made of natural fiber. (do not raise dust)

Take the collection in metal container.

7. HANDLING AND STORAGE

Handling: Use protective equipment noted in 「6. ACCIDENTAL RELEASE MEASURES」 .

If not use, do not touch leak and ink directly.

Using outdoors and at well- ventilated place.

Precautions or explosion and flame :

Precautions : Keep away from the heat source, fire, spark and high temperature.

Storage : Put into an attached container and seal. Keep away from heat source, fire, high temperature and direct ray.

Store in a well- ventilated and a dry place under 50°C.

SAFETY CONTAINER : Attached container

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SUBSTANCE	standard control concentration (Ministry of Health, Labour and Welfare)	permissible concentration (Japan Assoc. of Industrial Health)	ACGIH/TWA
Pigment Yellow 93		8.0mg/m ³ (dust class3)	10mg/m ³ (2002)
Pigment Brown 23		8.0mg/m ³ (dust class3)	10mg/m ³ (2002)
Carbon Black	2.9mg/m ³	4.0mg/m ³ (Total dust)	3.5mg/m ³ (2002)
Titanium dioxide		4.0mg/m ³ (dust class2)	10mg/m ³ (2009)
Glycerol			10mg/m ³

SUBSTANCE	standard control concentration (Ministry of Health, Labour and Welfare)	permissible concentration (Japan Assoc. of Industrial Health)	ACGIH/TWA
Diethnolamine			2.0mg/m ³
Polyoxyethylene derivative			2.0mg/m ³

Equipment : desirable to use device for exhausting gases .

Safety equipment : desirable to use equipment noted in 「6. ACCIDENTAL RELEASE MEASURES」

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

FORM solid (stick)

COLOUR SNOW : white, SAND : ocher, MUD : brown, LIGHT EARTH : light brown

ODOUR slightly smell

pH No data

MELTING POINT: About 60°C

INITIAL BOILING POINT AND BOILING RANGE: No data

FLASH POINT: No data

UPPER/LOWER FLAMMABILITY or EXPLOSIVE LIMITS : No data

VAPOUR PRESSURE: No data

VAPOUR DENSITY: No data

RELATIVE DENSITY: No data

Solubility: distributes in water

PARTITION COEFFICIENT: n-octanol/water: No data

AUTO IGNITION TEMPARETURE: No data

DECOMPOSITION TEMPARETURE: No data

10. STABILITY AND REACTIVITY

FLAMMABILITY : No data

IGNITION (spontaneous combustion and react with water) : No data

OXIDIZIBILITY : Not applicable

SELF REACTION AND EXPLOSION : No data

DUST EXPLOSION : No data

STABILITY AND REACTIVITY : Considered as stable in normal using.

UNSUITABLE CONDITION : High temperature (above 50°C)

AVOID CONTACTING WITH : (4 colours) acid, alkali, oxidizing agent, halaide.

OTHERS : Nothing

1 1 . TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (ORAL) : No data

(PERCUTANEOUS) : No data

(INHALATION) : gases : No data

: vapor : No data

: dust and mist : No data

SKIN CORROSION/IRRITATION : (4 Colours) No knowledge

SERIOUS EYE DAMAGE /EYE IRRITATION : (4 Colours) No knowledge

COLOUR : SNOW

Category 2 A Sodium fatty acid salt (16.6%)

Category 2 B Polyethylene glycol (11.4%)

Titanium dioxide (30.8%)

Classified as Category 2 (Causes serious eye irritation)

COLOUR : SAND

Category 1 Diethanolamine (0.1%)

1,2-Benzothiazolin-3-one (0.0%)

Category 2 A Sodium fatty acid salt (17.7%)

Category 2 B Polyethylene glycol (12.0%)

Classified as Category 2 (Causes serious eye irritation)

COLOUR : MUD

Category 1 Diethanolamine (0.3%)

1,2-Benzothiazolin-3-one (0.0%)

Category 2 A Sodium fatty acid salt (17.4%)

Category 2 B Polyethylene glycol (11.0%)

Classified as Category 2 (Causes serious eye irritation)

COLOUR : LIGHT EARTH

Category 1 Diethanolamine (0.1%)

1,2-Benzothiazolin-3-one (0.0%)

Category 2 A Sodium fatty acid salt (17.6%)

Category 2 B Polyethylene glycol (11.9%)

Classified as Category 2 (Causes serious eye irritation)

RESPIRATORY OR SKIN SENSITIZATION : No knowledge

GERM CELL MUTAGENICITY : No knowledge

CARCINOGENICITY ; No knowledge

◆ GHS CLASSIFICATION

COLOUR : SAND

Category 2 Carbon black (0.1%)

Carbon black is classified as Category 2. (IARC)

SAND is classified as Category 2 (Suspected of causing cancer).

COLOUR : MUD

Category 2 Carbon black (0.5%)

Classified as Category 2 (Suspected of causing cancer).

COLOUR : LIGHT EARTH

Category 2 Carbon black (0.3%)

Classified as Category 2 (Suspected of causing cancer).

REPRODUCTIVE TOXICITY : No knowledge

SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE : No knowledge

SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE : No knowledge

ASPIRATION HAZARD : No knowledge

1 2. ECOLOGICAL INFORMATION

HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE) : No knowledge

COLOUR : SNOW

Category 2 Sodium fatty acid salt (16.6%)

Classified as Category 3 (Harmful to aquatic life)

COLOUR : SAND

Category 1 1,2-Benzoisothiazolin-3-one (0.0%)

Category 2 Diethanolamine (0.1%)

Sodium fatty acid salt (17.7%)

Classified as Category 3 (Harmful to aquatic life)

COLOUR : MUD

Category 1 1,2-Benzoisothiazolin-3-one (0.0%)

Category 2 Diethanolamine (0.3%)

Sodium fatty acid salt (17.4%)

Classified as Category 3 (Harmful to aquatic life)

COLOUR : LIGHT EARTH

Category 1 1,2-Benzoisothiazolin-3-one (0.0%)

Category 2 Diethanolamine (0.1%)

Sodium fatty acid salt (17.6%)

Classified as Category 3 (Harmful to aquatic life)

HAZARDOUS TO THE AQUATIC ENVIRONMENT (CHRONIC) : No knowledge

BIOACCUMULATIVE POTENTIAL : No knowledge

PERSISTENCE AND DEGRADABILITY : No knowledge

MOBILITY IN SOIL : No knowledge

1 3 . DISPOSAL CONSIDERATIONS

Request processes for the regular industrial waste treatment company.
Do not release to rivers and drain.

1 4 . TRANSPORT INFORMATION

UN NUMBER :

PACKING GROUP :

SPECIAL PRECAUTIONS WHICH A USER NEEDS TO BE AWARE OF, OR NEEDS TO COMPLY WITH, IN CONNECTION WITH TRANSPORT OR CONVEYANCE EITHER WITHIN OR OUTSIDE THEIR PREMISES : In transporting, make sure of no leak from pack and prescribed Indication.

Load so as not to fall, fall down, and damage.

Make sure to prevent collapsing load.

Keep away from water, moisture, sunlight, the heat source, high Temperature and fire, spark, transport under 50°C.

1 5 . REGULATORY INFORMATION

Industrial safety and Health Law : Article 57-2

Diethanolamine (SAND:0.1%, MUD:0.3%, LIGHT EARTH:0.1%)

Carbon Black (SAND:0.1%, MUD:0.5%, LIGHT EARTH : 0.3%)

Titanium dioxide (SNOW : 30.8%, SAND:19.6%, MUD:19.6%

LIGHT : 19.5%)

Silicic acid (SAND : 2.0%, MUD:2.0%, LIGHT EARTH : 2.0%)

Stearic acid sodium salt (SNOW:7.5%, SAND:8.0%, MUD:7.8%,

LIGHT EARTH:7.9%)

1 6 . OTHER INFORMATION

In the written contents the value of content, physical-chemistry-character and etc. is not guarantee value.

Written contents may be revised if obtain new information.

Since notes are the things for usual handling, in special handling, consider this point.

Moreover, since evaluation of hazard detrimental nature is not necessarily enough, be cautious of handling enough.

• REFERENCES

The information here is given in good faith, but no warranty, express or implied is made.

Final determination of suitability of any material is the solo responsibility of the user.

1 7 . QUOTATION LITERATURE

QUOTATION LITERATURE Substances M S D S
Pigments M S D S, Talc M S D S, PEG M S D S,
Silicone M S D S

Substances information :Ministry of Health, Labour and
Welfare(WEB SITE)

1 8 . REVISION

SET UP DATE : June 23, 2005

REVISION HISTORY

The First: May 19, 2006

The Second: March 13, 2015

<Information> changed contents partially
