

1. Identification of the substance/mixture and of the company/undertaking***Product identifier:**

Trade name: TiTi Beeswax Crayon

Article Number: Not available

Application of the substance: Art Painting

***Manufacturer/supplier:**

TiTi Co.,Ltd.

D1 Area Mazhen Industrial zone, Xiake-zhen, Jiangin-city. Jiangsu-Prov. P.R.O.C.

Phone:86 510 8652 1165

Fax: 86 510 8652 9111

Website: www.titi.co.kr

Information department:** R&D Center / TiTi Co., Ltd.Emergency telephone number:** 86 510 8652 1165***E-mail:**whcho@titi.co.kr**2. Composition/Information on ingredients*****Chemical characterization:**

None dangerous components

CAS No.	Description	% by wt
8002-74-2	Paraffin wax	30~36
57-11-4	Stearic Acid (Palm oil based)	23~27
68514-74-9	Hydrogenated palm oil	8~12
8042-47-5	White mineral oil(petroleum)	4~5
471-34-1	Calcium Carbonate, light	16~20
8012-89-3	Bees wax	3~5
	Others	2~5
	Pigments	3~10

3. Hazards identification***Hazard description:** Not applicable***Information concerning particular hazards for human and environment:**

The product is not classified as dangerous according to OSHA Hazard communication standard(29 CFR 1910.1200)

***Classification system:**

The classification is according to the latest edition of the OSHA Hazard Communication Standard(29 CFR 1910.1200) and extended by company and literature data.

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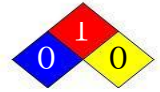
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- NFPA ratings (scale 0 - 4)



Health = 0
Fire = 1
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 0
Fire = 1
Reactivity = 0

4 First aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
Rinse out mouth with water.
If symptoms persist consult doctor.

5 Fire fighting measures

- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Protective equipment:
Wear fully protective suit.
Mouth respiratory protective device.

6 Accidental release measures

- Person-related safety precautions:
Ensure adequate ventilation
Keep away from ignition sources
Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection:
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- Measures for cleaning/collecting: Pick up mechanically.

7 Handling and storage

- Handling:
- Information for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.

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Normal measures for preventive fire protection

- Storage:
 - Requirements to be met by storerooms and receptacles:
 - Store in a cool location.
 - Keep container tightly closed in a dry and well-ventilated place.
 - Information about storage in one common storage facility:
 - Store away from foodstuffs
 - Store away from flammable substances
 - Store away from oxidizing agents
 - Further information about storage conditions:
 - Store in cool, dry conditions in well sealed receptacles
 - Store under lock and key and out of the reach of children

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.

- Components with limit values that require monitoring at the workplace:

8002-74-2 Paraffin waxes and Hydrocarbon waxes

REL (USA)	2 mg/m ³
TLV (USA)	2 mg/m ³
WEL (Great Britain)	Short-term value: 6 mg/m ³ Long-term value: 2 mg/m ³

14807-96-6 Talc (Mg₃H₂(SiO₃)₄)

PEL (USA)	20 mppcf ppm (containing <1% Quartz)
REL (USA)	2* mg/m ³ *respirable dust
TLV (USA)	2* mg/m ³ *as respirable fraction; Withdrawn from NIC; E
WEL (Great Britain)	1 mg/m ³

- Additional information: The lists that were valid during the creation were used as basis.
- Based on the composition shown in section 2, the following measures are suggested for occupational safety measure
 - Personal protective equipment
 - General protective and hygienic measures:
 - Keep away from foodstuffs, beverages and feed
 - Wash hands before breaks and at the end of work.
 - Breathing equipment: Suitable respiratory protective device recommended
 - Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. 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.

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- Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed
- Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

• General Information

Form:	Solid
Color:	
Odor:	Odorless

- Change in condition
Melting point/Melting range: 65-75° C
Boiling point/Boiling range: Not available

- Flash point: 220 °C

- Flammability (solid, gaseous): Not available
- Ignition temperature: Not available

- Auto igniting: Product is not selfigniting

- Danger of explosion: Product does not present an explosion hazard

- Explosion limits:
Lower: Not available
Upper: Not available
- Oxidizing properties: Not available

- Vapor pressure: Not available

- Density: 1.2-1.4 g/ml
- Relative density: Not available
- Vapour density: Not available
- Evaporation rate: Not available

- Solubility in / Miscibility with
Water: Not available

- pH-value: Not available

- Viscosity:
Dynamic: Not available

- Additional information: Not available

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions: No dangerous reactions known.
- Dangerous products of decomposition: No dangerous decomposition products known.

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11 Toxicological information

- Acute toxicity
- LD/LC50 values that are relevant for classification:

57-11-4 stearic acid, pure

Dermal | LD50 | >5000 mg/kg (rabbit)

8002-74-2 Paraffin waxes and Hydrocarbon waxes

Oral | LD50 | >5000 mg/kg (rat)

Dermal | LD50 | >2000 mg/kg (rabbit)

- Primary irritant effect
- on the skin: Irritating effect possible
- on the eye: Irritating effect possible
- Sensitization: Sensitization possible
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- Additional ecological information:
- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Product
- Recommendation: Smaller quantities can be disposed of with household waste
- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- DOT regulations
- Hazard class: -
- Identification number: -
- Packing group: -
- Hazardous substance: -
- Poison inhalation hazard: -
- Proper shipping name (technical name): -
- Label: -

- Land transport ADR/RID (cross-border) -
- ADR/RID class: -
- Danger code (Kemler): -
- UN-Number: -
- Packaging group: -
- Label: -
- Special marking: -

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- | | |
|---------------------------------------|----|
| • Description of goods: | - |
| • Maritime transport IMDG | |
| • IMDG Class: | - |
| • UN Number: | - |
| • Label: | - |
| • Packaging group: | - |
| • EMS Number: | - |
| • Marine pollutant: | No |
| • Proper shipping name: | - |
| • Air transport ICAO-TI and IATA-DGR: | |
| • ICAO/IATA Class: | - |
| • UN/ID Number: | - |
| • Label: | - |
| • Special marking: | - |
| • Packaging group: | - |
| • Proper shipping name: | - |

15 Regulations

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• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

8002-74-2	Paraffin waxes and Hydrocarbon waxes
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57-11-4	stearic acid, pure
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14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
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68514-74-9	Hydrogenated palm oil
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8009-03-8	Petrolatum
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8012-89-3	beeswax
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64742-55-8	Distillates (petroleum), hydrotreated light paraffinic
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• Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

• Cancerogenity categories

• EPA (Environmental Protection Agency):

None of the ingredients is listed.

• IARC (International Agency for Research on Cancer):

None of the ingredients is listed.

• NTP (National Toxicology Program):

None of the ingredients is listed.

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• TLV (Threshold Limit Value established by ACGIH):

14807-96-6 Talc (Mg3H2(SiO3)4) A4

• NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients is listed.

• Product related hazard informations:

Observe the general safety regulations when handling chemicals
This material (or substance or mixture) is not considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200).

• National regulations

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

• *****
The contents and format of this MSDS/SDS are in accordance with 29 CFR 1910.1200(g).

DISCLAIMER OF LIABILITY :

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.

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