

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name :Artists' Water Colour  
Manufacturer :Turner Colour Works Ltd.  
Address :2-15-7 mitsuyakita yodogawa-ku,Osaka-fu,Japan  
Name of section :R&D  
Emergency Telephone Number :06-6308-1216  
Tel. :06-6308-1216  
Fax. :06-6305-3018  
Mail Address :kenkyuu@turner.co.jp  
Revised Date / Issued Date :2015/6/1  
Form No. :1346-1

## 2. Hazards identification

GHS Classification :Not classified  
Health Hazards :None  
Hazard symbol :None  
Signal word :None  
Hazard statement :None

### Precautionary statements

#### Security precaution:

Obtain special instructions before use.

Avoid release to the environment.

Use personal protective equipment as required.

#### Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/ doctor/if you feel unwell.

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.

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

#### Storage:

Protect from sunlight and store locked up.

#### Disposal:

Dispose of contents/container to regulation.

## 3. Composition/information on ingredients

Substance/Mixture: Mixture

General product description: Natural paints

Ingredients and composition:

	CAS No.	wt. %	PRTR Class 1 Designated Chemical Substances (Decree number)
chromium and chromium(III) compounds	-	0 ~ 32	87
antimony and its compounds	68186-90-3	0 ~ 2	31
nickel compounds	-	0 ~ 0.2	309 <sup>*1</sup>
cobalt and its compounds	68187-11-1	10 ~ 35	132

\*1 Specific Class 1 Chemical Substances

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#### 4 First aid measures

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- IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/ doctor/if you feel unwell.
- IF ON SKIN: Wipes up quickly with cloth and washes it off sufficiently using plenty of water and soap.  
Don't use organic solvent, thinner and so on.  
If you get damage or feel pain, seek medical advice/attention.
- IF IN EYES: Wash for more than 15 minutes with a plenty of water at once.  
Remove contact lenses if present and easy to do. continue rinsing.
- IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
Rinse mouth. Do NOT induce vomiting.

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#### 5. Fire-fighting measures

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Fire-fighting measures: In response to the surrounding fire , performing fire fighting .

Protection : Do fire fighting from the windward and wear respiratory-protective-equipment and protective-glove.

Suitable extinguishing media: All

Prohibited extinguishing media: None

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#### 6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures:

Wear protective equipments ( gloves, protective mask, apron and goggles )

Environmental precautions: Be careful so as not to cause the influence on the environment by the outflow to the rivers.

Methods and materials for containment and cleaning up:

Collects outflow to the container which can be shut, and move it to the safe place.

Dispose wastes based on the regulations concerned.

Prevent outflow using dry sand, earth or other incombustible material, and make absorb residue to collect it.

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#### 7. Handling and storage

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Handling notice: Store in a well ventilated place.

After Using, keep container tightly closed

Storage notice: Protect from sunlight.

Store in a well ventilated place.

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#### 8. Exposure controls/personal protection

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Hazards of composition material and exposure concentration standard

Component	Concentration	ACGIH(TLV)(mg/m3)	Reference
Antimony and its compounds	—	0.5, TWA	ACGIH(2005)
Chromium and chromium(III) co	—	0.5, TWA	
Nickel compounds	—	0.1(as nickel), TWA	
Cobalt and its compounds	—	0.02(as cobalt) TWA	

Equipment measure: None

Protection measure: tory protection : Use the appropriate protective mask

Eye protection: Use the protective glasses

Hand protection: Wear the grabs made from materials that doesn't be penetrated by organic solvents or chemicals.

Skin protection: Wear clothing that does not expose the skin directly .

It is desirable chemical is a material that does not penetrate .

Other protection measure: -

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## 9. Physical and chemical properties

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Physical state: Liquid  
Colour: Each colour  
Odour: Slight sweet odour  
Boiling point: Over 100°C  
Flammability or explosive limits: No data  
Vapor pressure: No data  
Solubility: No data  
Ignition point: None  
Flash point: None  
Density: 1.2 ~ 1.7  
Partition coefficient n-octanol/water: No data  
Decomposition temperature: No data  
Other: Water soluble

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## 10. Stability and reactivity

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Stability: Stable under usual conditions  
Conditions to avoid: None  
Materials avoid to mix: No data  
Hazardous decomposition products: There is a risk of generating noxious gases .  
Other risk information: None

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## 11. Toxicological information

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### ■ Titanium dioxide

Serious eye damage/Eye irritation: 2B  
Carcinogenicity: 2

### ■ Silica

Carcinogenicity: 1A  
Specific target organ systemic toxicity(single exposure): 1(respiratory system)  
Specific target organ systemic toxicity(repeated exposure): 1(respiratory system, the kidneys)

### ■ Iron oxide

Skin corrosion/irritation: 2  
Serious eye damage/Eye irritation: 1  
Specific target organ systemic toxicity(single exposure): 3(respiratory irritation)  
Specific target organ systemic toxicity(repeated exposure): 1(respiratory system)

### ■ Carbon black

Carcinogenicity: 2  
Specific target organ systemic toxicity(repeated exposure): 1(the lungs)

※ It has described the information as the powder , respectively .

※ Toxicological information is a chemical -specific data , and does not change by the inclusion concentration .

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## 12. Ecological information

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Residual property/resolvability: There are not data as a mixture  
Creature accumulation characteristics: There are not data as a mixture  
Movement degree in the soil: There are not data as a mixture.

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## 13. Disposal considerations

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Requests disposal to the agency who has solid-waste-treatment license.  
Dispose of contents/container in accordance with local/regional/national regulation.

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#### 14. Transport Information

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Common: Follow the attentions of "7. Handling and storage"

Make sure that there is no leak in a container , falling , falling , reliably perform the loading load collapse prevention as there is no damage .

Ground Transportation: If applicable to the Fire Defense Law , Occupational Safety and Health Law and the Poisonous Material Act , to be in accordance with the transportation method which is defined in each of the relevant law .

Maritime transport: Follow with the Ship Safety Act .

Air transport: Follow the Aviation Law

UN number: None

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#### 15. Regulatory information

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PRTR Law: Class 1 Designated Chemical Substances

Chromium and chromium(III) compounds

Antimony and its compounds

Cobalt and its compounds

Specific Class 1 Chemical Substances

Nickel compounds

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#### 16. Other information

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Main reference      Japan Paint Manufacturers Association "Raw material data base"  
"YOZAI Pocket Book"  
International Chemical Safety Cards ( ICSC )  
SDS of raw materials  
Chemical Risk Information Platform

#### Notice

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only.

It should not therefore be construed as guaranteeing any specific property of the product.

In case of use, set a safe conditions for handling

All chemicals have possibility of unknown hazards, so it needs a due attention for handling

Applicable scope of this document is only in Japan.

Artist's Water Color/Component list

Code No.	Colour Name	chromium and chromium(III) compounds	antimony and its compounds	nickel compounds	cobalt and its compounds
WT001	Chinese White				
WT002	Titanium White				
WT004	Davy's Grey	○			
WT005	Neutral Tint				
WT006	Mars Black				
WT007	Paynes Gray				
WT008	Lamp Black				
WT009	Ivory Black				
WT010	Alizarin Crimson				
WT011	Natural Rose Madder				
WT012	Rose Red				
WT013	Quinacridone Red				
WT014	Pyrrrole Red				
WT016	Permanent Scarlet				
WT018	Turner Red				
WT019	Maya Red				
WT021	Permanent Yellow Orange				
WT022	Permanent Gamboge			○	
WT024	Permanent Yellow				
WT026	Permanent Lemon				
WT028	Aureolin Hue			○	
WT029	Transparent Yellow			○	
WT030	Maya Yellow				
WT031	Turner Yellow Green				
WT032	Maya Green				
WT033	Hooker's green				
WT035	Sap Green				
WT036	Chrome Oxide Green	○			
WT037	Green Gold			○	
WT038	Olive Green				
WT039	Terre Verte Hue				
WT040	Cobalt Green				
WT041	Phthalo Green/Y.S.				
WT042	Phthalo Green/B.S.				
WT043	Viridian	○			
WT045	Phthalo Turquoise				
WT046	Manganese Blue Hue				
WT051	Turquoise Blue				○
WT052	Cerulean Blue	○			○
WT054	Ultramarine				
WT055	Phthalo Blue/G.S.				
WT056	Phthalo Blue/R.S.				
WT057	Prussian Blue				
WT058	Maya Blue				
WT059	Cobalt Blue Deep				
WT060	Ultramarine Deep				
WT061	Dioxazine Violet				
WT062	Ultramarine Violet				
WT063	Cobalt Violet				
WT064	Manganese Violet				
WT065	Maya Violet				
WT066	Maya Magenta				
WT067	Quinacridone Violet				
WT068	Quinacridone Magenta				
WT069	Opera Red				
WT070	Transparent Yellow Oxide				
WT071	Quinacridone Gold				
WT072	Maya Orange				
WT073	Naples Yellow	○	○		
WT074	Yellow Ochre				
WT075	Raw Sienna				
WT076	Burnt Sienna				
WT077	Raw Umber				
WT078	Burnt Umber				
WT079	Sepia				
WT080	Van Dyke Brown				
WT081	Venetian Red				
WT082	Mars Violet				
WT083	Brown Madder				

No.	Colour Name	chromium and chromium(III) compounds	antimony and its compounds	nickel compounds	cobalt and its compounds
WT084	Turner Maroon				
WT085	Light Red				
WT086	Indian Red				
WT087	Transparent Red Oxide				
WT090	Permanent Crimson				
WT091	Rose Madder Hue				
WT092	Naphthol Red				
WT093	Pyrole Orange (RS)				
WT094	Hansa Lemon				
WT095	Indian Yellow			○	
WT096	Turner's Yellow	○	○		
WT097	Indigo				
WT098	Indanthrene Blue				
WT306	Charcoal (Blue Shade)				
WT307	Charcoal (Red Shade)				
WT308	Charcoal				
WT310	Citrus Yellow				
WT312	Turmeric				
WT323	Wine Red				
WT327	Cinnabar				
WT332	Clove				
WT340	Sprout				
WT342	Moss				
WT346	Evergreen				
WT350	Freshwater				
WT353	Deep Indigo				
WT359	Pale Wisteria				
WT362	Purple Gromwell				
WT373	Antique Gold				
WT377	Antique Bronze				
WT378	Antique Copper				
WT381	Antique Silver				
WT390	Benzimidazolone Brown				
WT391	Quinacridone Burnt Orange			○	
WT392	Quinacridone Burnt Scarlet			○	
WT393	Quinacridone China Rose				
WT394	Quinacridone Coral				
WT395	Quinacridone Sienna			○	
WT396	Quinacridone Purple				
WT401	Colour Pearl White				
WT405	Colour Pearl Yellow				
WT409	Colour Pearl Red				
WT413	Colour Pearl Green				
WT419	Colour Pearl Indigo				
WT422	Colour Pearl Black				
WT423	Colour Pearl Reflex Red				
WT424	Colour Pearl Orange				
WT425	Colour Pearl Goldenbell				
WT426	Colour Pearl Evergreen				
WT427	Colour Pearl Sky Blue				
WT428	Colour Pearl Ocean Blue				
WT470	Gold Light	○			
WT471	Gold Deep	○			
WT472	Silver	○			
WT473	Gold Orange	○			
WT474	Bronze				
WT475	Copper	○			
WT476	Grey Silver				
WT477	Grey Gold				
WT478	Blue Silver				
WT479	Russet				
WT490	Interference Silver				
WT491	Interference Red				
WT492	Interference Lilac				
WT493	Interference Blue				
WT494	Interference Green				
WT495	Interference Gold				
WT496	Interference Copper				