

# SAFETY DATA SHEET

## 1.CHEMICAL PRODUCT AND IDENTIFICATION

Chemical product name: TURNER ACRYL GOUACHE

Color name: Ramp Black

Name of manufacturer: Turner Colour Works Ltd.

Address: 2-15-7, Mitsuyakita, Osaka Shi Yodogawa Ku, Osaka Fu, 532-0032, Japan

Name of section: R&D

Phone number: +81- (0) 6-6308-1216

Emergency call: +81- (0) 6-6308-1216

Fax number: +81- (0) 6-6305-3018

E-MAIL: [kenkyuu@turner.co.jp](mailto:kenkyuu@turner.co.jp)

Revised Date/Issued Data: APR.13.2019

Form No.: 2007-02

## GHS Classification

### Physical Hazards:

Without the need of classification

### Health Hazards:

	Carcinogenicity	CATEGORY 2
	Reproductive toxicity	CATEGORY 2
Specific target organ systemic toxicity (single exposure) :		CATEGORY 2

### Environment Hazards:

Without the need of classification

## Hazard symbol



silhouette

## Signal word

**warning**

## Hazard statement

H351 Suspected of causing cancer .

H361 Suspected of damaging fertility or the unborn child .

H371 May cause damage to organs . (the central nervous, liver, kidney, blood)

## Precautionary statements

### Security precaution:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Response:

P308+P313 IF exposed or concerned: Get medical advice/attention.

### storage:

P405 Store locked up.

### Disposal:

P501 Properly dispose of to be in accordance with the laws and regulations of the contents / container .

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**3.COMPOSITION/INFORMATION ON INGREDIENTS**

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Substance/Mixture: Mixture

General product description: Acrylic emulsion paints

Ingredients and composition:

components	CAS No.	(%)
Acrylic ester copolymer aqueous emulsion	secret	13.6%
Calcium carbonate	471-34-1	32.8%
Sodium aluminum silicate	1344-00-9	4.9%
Carbon black	1333-86-4	4.9%
Styrene-maleic acid monoester copolymer soda salt	360050-99-3	3.1%
1,2-Propanediol	57-55-6	1.6%
Thickener	secret	1.6%
Rheology Modifier	secret	1.1%
Antifoaming Agent	secret	0.7%
3-Hydroxy-2,2,4-trimethylpentyl Isobutyrate	25265-77-4	0.7%
Poly (oxy-1,2-ethanediyl), a-phenyl-w-hydroxy-, styrenated	104376-75-2	0.6%
2-Amino-2-methyl-1-propanol	124-68-5	0.4%
Hydroxyethyl Cellulose	9004-62-0	0.3%
1,2-Benzisothiazol-3 (2H) -one	2634-33-5	0.2%
Sodium Hexametaphosphate	10124-56-8	0.2%
2-Butylbenzo [d] isothiazol-3 (2H) -one	4299-07-4	0.1%
2-Chloroacetamide	79-07-2	0.0%
Water	7732-18-5	33.2%
		100.0%

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**4.FIRST – AID MEASURES**

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**Eye contact:** Immediately wash it with plenty of clean running water for at least 15 minutes.  
Remove contact lenses when worn and can be easily removed.  
Wash thoroughly to the back of the eyelids.  
Get medical attention as soon as possible.

**Skin contact:** Quickly wipe off deposits with cloth.

Wash thoroughly with large amounts of water and soap or skin detergent. Do not use solvent or thinner.  
If there is a change in appearance, stimulation / pain, if you feel uncomfortable get a doctor's diagnosis.

**Inhalation:** If you feel bad by inhaling steam, gas, etc. move to a fresh air place and rest in a posture that is easy to breathe.  
If you feel unwell, call a doctor.  
If symptoms persist, call a doctor.

**Ingestion:** If swallowed by mistake, it and consult a doctor immediately to rest.  
Be so as not to swallow the vomit.  
Do not induce vomiting except in the physician's instructions.

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**5.FIRE – FIGHTING MEASURES**

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Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and project surrounding area.

Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide, smoke, fumes and oxides of carbon.

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## 6.ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** Wear proper protective equipment.

In case of insufficient ventilation, wear suitable respiratory equipment.

Shut off all sources of ignition.

Avoid contact with skin and eyes.

Remove ignition sources and ventilate the area.

Evacuate personnel to safe area. Evacuate non-essential personnel.

**Environmental precautions:** Do not wash away into sewer, watercourse or river.

Prevent product from discharging into the environment.

After collecting spills, wash with plenty of water and dispersing agent.

**Methods for cleaning up:** Collect the spill into a sealable container and transfer it to a safe place.

Handle deposits, waste, etc. according to relevant laws and regulations.

Recover with scoops, waste etc.

Put all wastes in a plastic bag for disposal and seal it tightly.

In case of large amount of embankment etc. to prevent spills. Washing with water, etc., also cause emissions to rivers and the like, causing environmental pollution, so be careful.

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## 7.HANDLING AND STORAGE

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**Handling:** Handle in a well-ventilated place.

Keep containers tightly closed each time.

Touch the skin, mucosa, or clothing, and wear protective equipment to prevent contact with eyes.

Wash hands, face etc thoroughly after handling, do not bring pollution protective equipment such as gloves to resting place etc.

**Storage:** Keep out of the reach of children. Keep container in a well-ventilated place.

Keep away from food, drink and animal feedingstuffs.

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## 8.EXPOSURE CONTROLS/PERSONAL PROTECTION

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Ingredient(s)	Exposure Limits (ACGIH-TLV)
Carbon black	3 mg/m <sup>3</sup>

**Exposure controls**

**Occupational exposure controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Personal protective equipment**

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection:** Wear suitable gloves.

**Eye protection:** Wear safety glasses with side shields.

**Skin protection:** Wear suitable protective clothing.

**Environmental exposure controls:** Maintain levels below Community environmental protection thresholds.

**General hygiene considerations:** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid.  
 Colour: black  
 Odour: Singular smell  
 pH: 8.0 - 9.0  
 Boiling point / boiling range: 100°C(Water)  
 Melting point / melting range: No information available.  
 Flash point: No flash point  
 Flammability (solid, gas): No flammable  
 Explosive properties: No information available.  
 Oxidising properties: No information available.  
 Vapour pressure: No information available.  
 Relative density (of concentrate): 1.36  
 Solubility (in water) (of concentrate): Complete.  
 Solubility (in oil) (of concentrate): Impossible  
 Partition coefficient: n-octanol/water: No information available.  
 Viscosity (of concentrate): No information available.  
 Miscibility: No information available.  
 Vapor density: No information available.  
 Evaporation rate: No information available.  
 Auto-ignition temperature: No information available.  
 Lower Flammability Limit: No information available.  
 Upper Flammability Limit: No information available.

## 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.  
 Conditions to avoid: No dangerous reaction known under conditions of normal use.  
 Incompatible hazardous substance: Reacts with oxidizing substances.  
 Hazardous decomposition products: If this material does not burn, if the coating etc. burns, it may generate harmful gas such as CO, NOx, halogen gas.

## 11. TOXICOLOGICAL INFORMATION

No information as mixture  
 Hazard information on ingredients

■ Carbon Black

Carcinogenicity                      CATEGORY 2

Component	Acute toxicity			Carcinogenicity (IARC)
	ORAL(mg/kg)	DERMAL(mg/kg)	INHALATION(mg/L)	
Carbon Black	Rat:>15400	>3000	—	2B

## 12. ECOLOGICAL INFORMATION

No information as mixture  
 Hazard information on ingredients

Component	HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE)	HAZARDOUS TO THE AQUATIC ENVIRONMENT (CHRONIC)
Carbon Black	Not classified	Not classified

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### 13.DISPOSAL CONSIDERATIONS

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Do not dump sewers, on the ground or into any of water.  
Consult an expert on the disposal of recovered material.  
Be sure to mention name, catalog number quantity of the material.  
Disposal must be made according to official regulations.

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### 14.TRANSPORT INFORMATION

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■Land transport

Not classified as a dangerous good under transport regulations.

■Inland waterway transport

Not classified as a dangerous good under transport regulations.

■Sea transport

Not classified as a dangerous good under transport regulations.

■Air transport

Not classified as a dangerous good under transport regulations.

■UN No.

Not applicable

It does not fall under the dangerous goods under the UN Recommendation.

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### 15.REGULATORY INFORMATION

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Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

Japanese Regulatory Data

■Industrial Safety and Health Act

Article 57-2 of the Act Article 18-2 of the Enforcement Order Appended Table 9

Carbon Black

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### 16.OTHER INFORMATION

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Disclaimer: Cary AP mark .

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# SAFETY DATA SHEET

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Chemical product name: ACRYL GOUACHE①

Original Colors

Name of manufacturer: Turner Colour Works Ltd.

Address: 2-15-7 mitsuyakita yodogawa-ku, Osaka-fu, Japan

Name of section: R&D

Phone number: :+81-(0)6-6308-1216

Emergency call: :+81-(0)6-6308-1216

Fax number: :+81-(0)6-6305-3018

E-MAIL: kenkyuu@turner.co.jp

Revised Date/Issued Date: Mar. 29. 2018

Form No. : 1340-03

Colors: ■ Mixing White, White, Neutral Grey 8, Neutral Grey 7, Neutral Grey 5, Lamp Black, Opera Red, Pink, Coral Red, Chinese Red, Jaune Brilliant, Naples Yellow, Yellow Ocher, Venetian Red, Emerald Green, Permanent Yellow Green, Permanent Green Light, Permanent Green Deep, Deep Green, Olive Green, Viridian(Hue), Peacock Blue, Sky Blue, Cobalt Blue(Hue), Prussian Blue(Hue), Turquoise Blue, Light Blue, Lilac, Rose Pink, Raw Sienna, Mustard, Apricot, Dandelion, Ivory Yellow, Maize Yellow, Fresh Green, Aqua Green, Ivy Green, Cyprus, Beryl Green, Spring Green, Horizon Blue, Aqua Blue, Blue Compose, Ultramarine Light, Night Blue, Spring Blue, Marine Blue, Bright Magenta, Mixing Magenta, Mixing Violet

## 2. HAZARDS IDENTIFICATION

### GHS Classification

GHS Physical Hazards: Not applicable.

GHS Health and Environmental Hazards: Not applicable.

hazard pictograms: Not applicable.

Signal word: Not applicable.

Hazard statements: Not applicable.

Precautionary statements: Not applicable.

Other hazards: Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

General product description: Acrylic emulsion paints

Ingredients and composition:		CAS No.	Remarks
acrylic emulsion		—	
carbon black		1333-86-4	
antimony nickel complex oxide			PRTR Law
zirconium dioxide		1314-23-4	
hafnium oxide		12055-23-1	
silicon oxide		7631-86-9	
C. I. Pigment Blue 15		147-14-8	
C. I. Pigment Green 7		1328-53-6	
titanium dioxide		13463-67-7	
ferric oxide		1309-37-1	
iron hydroxide oxide yellow		51274-00-1	

Composition Ingredient (%)

colors

antimony nickel complex oxide

as Sb

1-2%

as Ni

-5%

NAPLES YELLOW

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#### 4. FIRST – AID MEASURES

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Eye contact: Remove any contact lenses at once.

Flush eyes well with flooding amounts of running water for at least 15 minutes. assure adequate flushing by separating the eyelids with sterile fingers.

If irritation persists, consult a physician.

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Skin contact: Remove all contaminated clothing.

Wash the affected area with plenty of water with mild soap

If irritation is continued, refer to medical attention.

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Inhalation: Remove the victim from the contamination immediately to fresh air.

If breathing is weak, irregular or has stopped, open his airway, loosen his shirt and belt and administer artificial respiration. And refer for medical attention.

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Ingestion: Do not induce vomiting and refer to medical attention.

never give anything to someone who is unconscious.

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#### 5. FIRE – FIGHTING MEASURES

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Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and protect surrounding area.

Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide, smoke, fumes and oxides of carbon.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions: Wear proper protective equipment.

In case of insufficient ventilation, wear suitable respiratory equipment.

Shut off all sources of ignition.

Avoid contact with skin and eyes.

Remove ignition sources and ventilate the area.

Evacuate personnel to safe area. evacuate non-essential personnel.

Environmental precautions: Do not wash away into sewer, watercourse or river.

Prevent spills from entering a lot of outflow, watercourses or low areas.

In order to prevent a lot of outflow, it should be with the ground etc.

Methods for cleaning up: Take up spilled material with ashes or other absorbents.

After material is completely picked up, wash the spill site with soap and water and ventilate the area.

Put all wastes in a plastic bag for disposal and seal it tightly.

Remove, clean, or dispose of contaminated clothing.

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#### 7. HANDLING AND STORAGE

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Handling: Keep away from sources of ignition. – No smoking. Avoid contact with eyes.

Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapour/spray.

Use only in well-ventilated areas. When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Storage: Keep out of the reach of children. Keep container in a well-ventilated place.

Keep away from food, drink and animal feedingstuffs.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Ingredient (s)	Exposure Limits (ACGIH-TLV)
carbon black	3.5mg/m <sup>3</sup>
antimony nickel complex oxide	0.5mg/m <sup>3</sup> , as Sb
antimony nickel complex oxide	0.2mg/m <sup>3</sup> , as Ni
zirconium dioxide	5mg/m <sup>3</sup> (TWA), as Zr
hafnium oxide	0.5mg/m <sup>3</sup> (TWA), as Hf
silicon oxide	10mg/m <sup>3</sup> (TWA)
C. I. Pigment Blue 15	—
C. I. Pigment Green 7	—
titanium dioxide	10mg/m <sup>3</sup>
ferric oxide	5mg/m <sup>3</sup> , as Fe
iron hydroxide oxide yellow	5mg/m <sup>3</sup> , as Fe

Exposure controls:

Occupational exposure controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable gloves.

Eye protection: Wear safety glasses with side shields.

Skin protection: Wear suitable protective clothing.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.

Colour: By color

Odour: Slight

pH: 8.0 - 9.0

Boiling point / boiling range: 100°C (water)

Melting point / melting range: No information available.

Flash point: No information available.

Flammability (solid, gas): No information available.

Explosive properties: No information available.

Oxidising properties: No information available.

Vapour pressure: No information available.

Relative density (of concentrate): 1.1 - 1.6

Solubility (in water) (of concentrate): Complete.

Solubility (in oil) (of concentrate): Impossible

Partition coefficient: n-octanol/water: No information available.

Viscosity (of concentrate): No information available.

Miscibility: No information available.

Vapor density: No information available.

Evaporation rate: No information available.

Auto-ignition temperature: No information available.

Lower Flammability Limit: No information available.

Upper Flammability Limit: No information available.

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## 10. STABILITY AND REACTIVITY

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Stability: Stable under recommended storage conditions. Contents under pressure.

Container may explode if heated. Do not puncture. Do not burn.

Conditions to avoid: No dangerous reaction known under conditions of normal use.

Materials to avoid: Acids. Bases. Oxidizers. Reducing agents.

Hazardous decomposition products: No information available.



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## 11. TOXICOLOGICAL INFORMATION

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- carbon black  
Acute toxicity-ORAL: LD50:>15400mg/kg(rat)
- antimony nickel complex oxide  
No information available.
- antimony nickel complex oxide  
No information available.
- zirconium dioxide  
No information available.
- hafnium oxide  
No information available.
- silicon oxide  
No information available.
- C. I. Pigment Blue 15  
Acute toxicity-ORAL: LD50:>2000mg/kg(rat)
- C. I. Pigment Green 7  
Acute toxicity-ORAL: LD50:≥5000mg/kg(rat)
- titanium dioxide  
Acute toxicity-ORAL: LD50:>10000mg/kg(rat)
- ferric oxide  
No information available.
- iron hydroxide oxide yellow  
No information available.

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## 12. ECOLOGICAL INFORMATION

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Toxicity	No further relevant information available.
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behavior in environmental systems:	No further relevant information available.
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information:	No further relevant information available.

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## 13. DISPOSAL CONSIDERATIONS

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Do not dump sewers, on the ground or into any of water.  
Consult an expert on the disposal of recovered material.  
Be sure to mention name, catalog number quantity of the material.  
Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

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- Land transport  
Not classified as a dangerous good under transport regulations.
- Inland waterway transport  
Not classified as a dangerous good under transport regulations.
- Sea transport  
Not classified as a dangerous good under transport regulations.
- Air transport  
Not classified as a dangerous good under transport regulations.
- UN No.  
Not applicable  
It does not fall under the dangerous goods under the UN Recommendation.

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#### 15. REGULATORY INFORMATION

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Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

■ Law concerning Pollutant Release and Transfer Register / PRTR Law  
antimony and its compounds (Class 1 No. 31), nickel compounds (class 1 No. 309)

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#### 16. OTHER INFORMATION

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Disclaimer: Original Colors carry AP mark.

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It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND IDENTIFICATION

Chemical product name: ACRYL GOUACHE②  
Original colors / Japanesque colour series  
Name of manufacturer: Turner Colour Works Ltd.  
Address: 2-15-7 mitsuyakita yodogawa-ku, Osaka-fu, Japan  
Name of section: R&D  
Phone number: :+81-(0)6-6308-1216  
Emergency call: :+81-(0)6-6308-1216  
Fax number: :+81-(0)6-6305-3018  
E-MAIL: kenkyuu@turner.co.jp  
Revised Date/Issued Date: Mar. 29, 2018  
Form No. : 1341-03

Colors: ■Permanent Lemon, Permanent Yellow, Permanent Yellow Deep, Permanent Yellow Orange, Permanent Orange, Permanent Scarlet, Permanent Red, Carmine, Rose, Poppy Red, Ultramarine, Red Violet, Blue Violet, Vermilion(Hue), Crimson, Currant Red, Magenta, Aubergine, Deep Purple, J. P. Gohun, J. Gohun, J. Red, J. Red Purple, J. Deep Red

## 2. HAZARDS IDENTIFICATION

### GHS Classification

GHS Physical Hazards: Not applicable.  
GHS Health and Environmental Hazards: Not applicable.  
hazard pictograms: Not applicable.  
Signal word: Not applicable.  
Hazard statements: Not applicable.

Precautionary statements: Not applicable.  
Other hazards: Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

General product description: Acrylic emulsion paints

Ingredients and composition:	CAS No.	Remarks
acrylic emulsion	-	

## 4. FIRST - AID MEASURES

Eye contact: Remove any contact lenses at once.  
Flush eyes well with flooding amounts of running water for at least 15minutes.  
assure adequate flushing be separating the eyelids with sterile fingers.  
If irritation oersists, consult a physician.

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Skin contact: Remove all contaminated clothing.  
Washthe affected area with plenty of water with mild soap  
If irritation is continued, refer to medical attention.

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Inhalation: Remove the victim from the contamination immediately to fresh air.  
If breathing is weak, irregular or has stopped, open his airway, loosen his and belt  
and adminisiter artificial respiration. And refer for medical attention.

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Ingestion: Do not induce vomiting and refer to medical attention.  
never give anything to someone who is unconscious.

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### 5. FIRE – FIGHTING MEASURES

---

Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and project surrounding area.

Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide, smoke, fumes and oxides of carbon.

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### 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions: Wear proper protective equipment.

In case of insufficient ventilation, wear suitable respiratory equipment.

Shut off all sources of ignition.

Avoid contact with skin and eyes.

Remove ignition sources and ventilate the area.

Evacuate personnel to safe area. evacuate non-essential personnel.

Environmental precautions: Do not wash away into sewer, watercourse or river.

Prevent spills from entering a lot of outflow, watercourses or low areas.

In order to prevent a lot of outflow, it should with the ground etc.

Methods for cleaning up: Take up spilled material with ashes or other absorbents.

After material is completely picked up, wash the spill site with soap and water and ventilate the area.

Put all wastes in a plastic bag for disposal and seal it tightly.

Remove, clean, or dispose of contaminated clothing.

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### 7. HANDLING AND STORAGE

---

Handling: Keep away from sources of ignition. – No smoking. Avoid contact with eyes.

Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapour/spray.

Use only in well-ventilated areas. When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Storage: Keep out of the reach of children. Keep container in a well-ventilated place.

Keep away from food, drink and animal feeding stuffs.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Ingredient (s)	Exposure Limits (ACGIH-TLV)
No information available.	

Exposure controls:

Occupational exposure controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable gloves.

Eye protection: Wear safety glasses with side shields.

Skin protection: Wear suitable protective clothing.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.

Colour: By color

Odour: Slight

pH: 8.0 - 9.0

Boiling point / boiling range: 100°C (water)

Melting point / melting range: No information available.

Flash point: No information available.

Flammability (solid, gas): No information available.

Explosive properties: No information available.

Oxidising properties: No information available.

Vapour pressure: No information available.

Relative density (of concentrate): 1.1 - 1.5

Solubility (in water) (of concentrate): Complete.

Solubility (in oil) (of concentrate): Impossible

Partition coefficient: n-octanol/water: No information available.

Viscosity (of concentrate): No information available.

Miscibility: No information available.

Vapor density: No information available.

Evaporation rate: No information available.

Auto-ignition temperature: No information available.

Lower Flammability Limit: No information available.

Upper Flammability Limit: No information available.

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## 10. STABILITY AND REACTIVITY

---

Stability: Stable under recommended storage conditions. Contents under pressure.

Container may explode if heated. Do not puncture. Do not burn.

Conditions to avoid: No dangerous reaction known under conditions of normal use.

Materials to avoid: Acids. Bases. Oxidizers. Reducing agents.

Hazardous decomposition products: No information available.

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## 11. TOXICOLOGICAL INFORMATION

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No information available.

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## 12. ECOLOGICAL INFORMATION

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Toxicity	No further relevant information available.
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behavior in environmental systems:	No further relevant information available.
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information:	No further relevant information available.

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### 13. DISPOSAL CONSIDERATIONS

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Do not dump sewers, on the ground or into any of water.  
Consult an expert on the disposal of recovered material.  
Be sure to mention name, catalog number quantity of the material.  
Disposal must be made according to official regulations.

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### 14. TRANSPORT INFORMATION

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■ Inland waterway transport

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■ Sea transport

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■ Air transport

Not classified as a dangerous good under transport regulations.

■ UN No.

Not applicable

It does not fall under the dangerous goods under the UN Recommendation.

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### 15. REGULATORY INFORMATION

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Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

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### 16. OTHER INFORMATION

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# SAFETY DATA SHEET

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Name of manufacturer: Turner Colour Works Ltd.

Japanesque colour series

Address: 2-15-7 mitsuyakita yodogawa-ku, Osaka-fu, Japan

Name of section: R&D

Phone number: :+81-(0)6-6308-1216

Emergency call: :+81-(0)6-6308-1216

Fax number: :+81-(0)6-6305-3018

E-MAIL: kenkyuu@turner.co.jp

Revised Date/Issued Date: Mar. 29. 2018

Form No. : 1342-03

Colors: ■ J. White, J. Grey, J. Blue Grey, J. Blue Black, J. Red Black, J. Dark Grey, J. Pale Yellow, J. Enamel, J. Deep Yellow, J. Strong Orange, J. Scarlet, J. Yellow Red, J. Pale Pink, J. Deep Pink, J. Red Brown, J. Strawberry Red, J. Grayish Red, J. Grayish Beige, J. Ivory Yellow, J. Beige, J. Deep Beige, J. Yellow Brown, J. Brown, J. Greyish Brown, J. Burnt Umber, J. Dark Brown, J. Red Brown, J. Pale Green, J. Light Green, J. Yellow Green, J. Green Light, J. Olive Green, J. Deep Green, J. Dark Green, J. Black Green, J. Dark Yellow, J. Pale Blue, J. Light Blue, J. Blue, J. Dark Blue, J. Deep Blue, J. Prussian Blue, J. Black Blue, J. Sky Blue, J. Pale Lilac, J. Lilac, J. Violet, J. Deep Purple, J. Black Purple, J. Grayish Purple, J. Iridfscence-1, J. Iridfscence-2, J. Iridfscence-3, J. Iridfscence-4

## 2. HAZARDS IDENTIFICATION

### GHS Classification

GHS Physical Hazards: Not applicable.

GHS Health and Environmental Hazards: Not applicable.

hazard pictograms: Not applicable.

Signal word: Not applicable.

Hazard statements: Not applicable.

Precautionary statements: Not applicable.

Other hazards: Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

General product description: Acrylic emulsion paints

Ingredients and composition:		CAS No.	Remarks
	acrylic emulsion	—	
	carbon black	1333-86-4	
	tin(IV) oxide	18282-10-5	
	silicon oxide	7631-86-9	
	C. I. Pigment Blue 15	147-14-8	
	C. I. Pigment Green 7	1328-53-6	
	titanium dioxide	13463-67-7	
	ferric oxide	1309-37-1	
	iron hydroxide oxide yellow	51274-00-1	

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#### 4. FIRST – AID MEASURES

---

Eye contact: Remove any contact lenses at once.

Flush eyes well with flooding amounts of running water for at least 15 minutes. assure adequate flushing by separating the eyelids with sterile fingers.

If irritation persists, consult a physician.

---

Skin contact: Remove all contaminated clothing.

Wash the affected area with plenty of water with mild soap

If irritation is continued, refer to medical attention.

---

Inhalation: Remove the victim from the contamination immediately to fresh air.

If breathing is weak, irregular or has stopped, open his airway, loosen his shirt and belt and administer artificial respiration. And refer for medical attention.

---

Ingestion: Do not induce vomiting and refer to medical attention.

never give anything to someone who is unconscious.

---

---

#### 5. FIRE – FIGHTING MEASURES

---

Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and protect surrounding area.

Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide, smoke, fumes and oxides of carbon.

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#### 6. ACCIDENTAL RELEASE MEASURES

---

Personal precautions: Wear proper protective equipment.

In case of insufficient ventilation, wear suitable respiratory equipment.

Shut off all sources of ignition.

Avoid contact with skin and eyes.

Remove ignition sources and ventilate the area.

Evacuate personnel to safe area. evacuate non-essential personnel.

Environmental precautions: Do not wash away into sewer, watercourse or river.

Prevent spills from entering a lot of outflow, watercourses or low areas.

In order to prevent a lot of outflow, it should be done with the ground etc.

Methods for cleaning up: Take up spilled material with ashes or other absorbents.

After material is completely picked up, wash the spill site with soap and water and ventilate the area.

Put all wastes in a plastic bag for disposal and seal it tightly.

Remove, clean, or dispose of contaminated clothing.

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#### 7. HANDLING AND STORAGE

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Handling: Keep away from sources of ignition. – No smoking. Avoid contact with eyes.

Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapour/spray.

Use only in well-ventilated areas. When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Storage: Keep out of the reach of children. Keep container in a well-ventilated place.

Keep away from food, drink and animal feedingstuffs.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

Ingredient (s)	Exposure Limits (ACGIH-TLV)
carbon black	3.5mg/m <sup>3</sup>
tin(IV) oxide	2.0mg/m <sup>3</sup> (TWA) (Sn)
silicon oxide	10mg/m <sup>3</sup> (TWA)
C. I. Pigment Blue 15	—
C. I. Pigment Green 7	—
titanium dioxide	10mg/m <sup>3</sup>
ferric oxide	5mg/m <sup>3</sup> (Fe)
iron hydroxide oxide yellow	5mg/m <sup>3</sup> (Fe)

### Exposure controls:

Occupational exposure controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable gloves.

Eye protection: Wear safety glasses with side shields.

Skin protection: Wear suitable protective clothing.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.

Colour: By color

Odour: Slight

pH: 8.0 - 9.0

Boiling point / boiling range: 100°C (water)

Melting point / melting range: No information available.

Flash point: No information available.

Flammability (solid, gas): No information available.

Explosive properties: No information available.

Oxidising properties: No information available.

Vapour pressure: No information available.

Relative density (of concentrate): 1.0 - 1.3

Solubility (in water) (of concentrate): Complete.

Solubility (in oil) (of concentrate): Impossible

Partition coefficient: n-octanol/water: No information available.

Viscosity (of concentrate): No information available.

Miscibility: No information available.

Vapor density: No information available.

Evaporation rate: No information available.

Auto-ignition temperature: No information available.

Lower Flammability Limit: No information available.

Upper Flammability Limit: No information available.

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## 10. STABILITY AND REACTIVITY

---

Stability: Stable under recommended storage conditions. Contents under pressure.

Container may explode if heated. Do not puncture. Do not burn.

Conditions to avoid: No dangerous reaction known under conditions of normal use.

Materials to avoid: Acids. Bases. Oxidizers. Reducing agents.

Hazardous decomposition products: No information available.

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## 11. TOXICOLOGICAL INFORMATION

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- carbon black  
Acute toxicity-ORAL: LD50:>15400mg/kg(rat)
- tin(IV) oxide  
Acute toxicity-ORAL: LD50:>20g/kg(rat)
- silicon oxide  
No information available.
- C. I. Pigment Blue 15  
Acute toxicity-ORAL: LD50:>2000mg/kg(rat)
- C. I. Pigment Green 7  
Acute toxicity-ORAL: LD50:≥5000mg/kg(rat)
- titanium dioxide  
Acute toxicity-ORAL: LD50:>10000mg/kg(rat)
- ferric oxide  
No information available.
- iron hydroxide oxide yellow  
No information available.

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## 12. ECOLOGICAL INFORMATION

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Toxicity	No further relevant information available.
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behavior in environmental systems:	No further relevant information available.
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information:	No further relevant information available.

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## 13. DISPOSAL CONSIDERATIONS

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Do not dump sewers, on the ground or into any of water.  
Consult an expert on the disposal of recovered material.  
Be sure to mention name, catalog number quantity of the material.  
Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

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- Land transport  
Not classified as a dangerous good under transport regulations.
- Inland waterway transport  
Not classified as a dangerous good under transport regulations.
- Sea transport  
Not classified as a dangerous good under transport regulations.
- Air transport  
Not classified as a dangerous good under transport regulations.
- UN No.  
Not applicable  
It does not fall under the dangerous goods under the UN Recommendation.

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## 15. REGULATORY INFORMATION

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Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

Disclaimer: Japanesque colour series carry AP mark .

The information contained in this document applies to this specific material as supplied.

It may not be valid for this material if it is used in combination with any other materials.

It is the user' s responsibility to satisfy oneself as to the suitability and completeness of this information for the user' s own particular use.

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND IDENTIFICATION

Chemical product name: ACRYL GOUACHE④  
Original colors / Pearl / Japanesque colour  
Name of manufacturer: Turner Colour Works Ltd.  
Address: 2-15-7 mitsuyakita yodogawa-ku, Osaka-fu, Japan  
Name of section: R&D  
Phone number: :+81-(0)6-6308-1216  
Emergency call: :+81-(0)6-6308-1216  
Fax number: :+81-(0)6-6305-3018  
E-MAIL: kenkyuu@turner.co.jp  
Revised Date/Issued Date: Mar. 29. 2018  
Form No. : 1343-03

Colors: ■ Burnt Sienna, Sepia, Raw Umber, Burnt Umber, Chocolate, Permanent Green Middle, Violet, Pearl White, Pearl Red, Pearl Lilac, Pearl Blue, Pearl Green, Pearl Yellow, J. Grayish Green

## 2. HAZARDS IDENTIFICATION

GHS Classification

GHS Physical Hazards: Not applicable.

GHS Health and Environmental Hazards:

Hazardous to the aquatic environment (acute) : category 3  
Hazardous to the aquatic environment (chronic) : category 3

hazard pictograms: NO  
pictogram  
Signal word: No signal word

Hazard statements:  
H402 Harmful to aquatic life  
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:  
P273 Avoid release to the environment.

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture  
General product description: Acrylic emulsion paints

Ingredients and composition:	CAS No.	Remarks
acrylic emulsion	—	
carbon black	1333-86-4	
tin(IV) oxide	18282-10-5	
C. I. Pigment Blue 15	147-14-8	
C. I. Pigment Green 7	1328-53-6	
titanium dioxide	13463-67-7	
ferric oxide	1309-37-1	

---

#### 4. FIRST - AID MEASURES

---

Eye contact: Remove any contact lenses at once.

Flush eyes well with flooding amounts of running water for at least 15 minutes. assure adequate flushing by separating the eyelids with sterile fingers.

If irritation persists, consult a physician.

---

Skin contact: Remove all contaminated clothing.

Wash the affected area with plenty of water with mild soap

If irritation is continued, refer to medical attention.

---

Inhalation: Remove the victim from the contamination immediately to fresh air.

If breathing is weak, irregular or has stopped, open his airway, loosen his shirt and belt and administer artificial respiration. And refer for medical attention.

---

Ingestion: Do not induce vomiting and refer to medical attention.

never give anything to someone who is unconscious.

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---

#### 5. FIRE - FIGHTING MEASURES

---

Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and protect surrounding area.

Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide, smoke, fumes and oxides of carbon.

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---

#### 6. ACCIDENTAL RELEASE MEASURES

---

Personal precautions: Wear proper protective equipment.

In case of insufficient ventilation, wear suitable respiratory equipment.

Shut off all sources of ignition.

Avoid contact with skin and eyes.

Remove ignition sources and ventilate the area.

Evacuate personnel to safe area. evacuate non-essential personnel.

Environmental precautions: Do not wash away into sewer, watercourse or river.

Prevent spills from entering a lot of outflow, watercourses or low areas.

In order to prevent a lot of outflow, it should be with the ground etc.

Methods for cleaning up: Take up spilled material with ashes or other absorbents.

After material is completely picked up, wash the spill site with soap and water and ventilate the area.

Put all wastes in a plastic bag for disposal and seal it tightly.

Remove, clean, or dispose of contaminated clothing.

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#### 7. HANDLING AND STORAGE

---

Handling: Keep away from sources of ignition. - No smoking. Avoid contact with eyes.

Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapour/spray.

Use only in well-ventilated areas. When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Storage: Keep out of the reach of children. Keep container in a well-ventilated place.

Keep away from food, drink and animal feedingstuffs.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

Ingredient (s)	Exposure Limits (ACGIH-TLV)
carbon black	3.5mg/m <sup>3</sup>
tin(IV) oxide	2.0mg/m <sup>3</sup> (TWA), as Sn
C. I. Pigment Blue 15	—
C. I. Pigment Green 7	—
titanium dioxide	10mg/m <sup>3</sup>
ferric oxide	5mg/m <sup>3</sup> , as Fe

### Exposure controls:

Occupational exposure controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable gloves.

Eye protection: Wear safety glasses with side shields.

Skin protection: Wear suitable protective clothing.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Physical State: Liquid.

Colour: By color

Odour: Slight

pH: 8.0 - 9.0

Boiling point / boiling range: 100°C (water)

Melting point / melting range: No information available.

Flash point: No information available.

Flammability (solid, gas): No information available.

Explosive properties: No information available.

Oxidising properties: No information available.

Vapour pressure: No information available.

Relative density (of concentrate): 1.0 - 1.5

Solubility (in water) (of concentrate): Complete.

Solubility (in oil) (of concentrate): Impossible

Partition coefficient: n-octanol/water: No information available.

Viscosity (of concentrate): No information available.

Miscibility: No information available.

Vapor density: No information available.

Evaporation rate: No information available.

Auto-ignition temperature: No information available.

Lower Flammability Limit: No information available.

Upper Flammability Limit: No information available.

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## 10. STABILITY AND REACTIVITY

---

Stability: Stable under recommended storage conditions. Contents under pressure.

Container may explode if heated. Do not puncture. Do not burn.

Conditions to avoid: No dangerous reaction known under conditions of normal use.

Materials to avoid: Acids. Bases. Oxidizers. Reducing agents.

Hazardous decomposition products: No information available.

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## 11. TOXICOLOGICAL INFORMATION

---

- carbon black  
Acute toxicity-ORAL: LD50:>15400mg/kg(rat)
- tin(IV) oxide  
Acute toxicity-ORAL: LD50:>20g/kg(rat)
- C. I. Pigment Blue 15  
Acute toxicity-ORAL: LD50:>2000mg/kg(rat)
- C. I. Pigment Green 7  
Acute toxicity-ORAL: LD50:≥5000mg/kg(rat)
- titanium dioxide  
Acute toxicity-ORAL: LD50:>10000mg/kg(rat)
- ferric oxide

No information available.

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## 12. ECOLOGICAL INFORMATION

---

Toxicity:	No further relevant information available.
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behavior in environmental systems:	No further relevant information available.
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information:	No further relevant information available.

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## 13. DISPOSAL CONSIDERATIONS

---

Do not dump sewers, on the ground or into any of water.  
Consult an expert on the disposal of recovered material.  
Be sure to mention name, catalog number quantity of the material.  
Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

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- Land transport  
Not classified as a dangerous good under transport regulations.
- Inland waterway transport  
Not classified as a dangerous good under transport regulations.
- Sea transport  
Not classified as a dangerous good under transport regulations.
- Air transport  
Not classified as a dangerous good under transport regulations.
- UN No.  
Not applicable  
It does not fall under the dangerous goods under the UN Recommendation.

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## 15. REGULATORY INFORMATION

---

Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

---

## 16. OTHER INFORMATION

---

Disclaimer: Original colors / Pearl / Japanesque colour carry AP mark .

The information contained in this document applies to this specific material as supplied.  
It may not be valid for this material if it is used in combination with any other materials.  
It is the user' s responsibility to satisfy oneself as to the suitability and completeness of this information for the user' s own particular use.

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND IDENTIFICATION

Chemical product name: ACRYL GOUACHE<sup>®</sup>  
Luminous / Grayish / Pastel / Lame Color series / Color Pearl  
Name of manufacturer: Turner Colour Works Ltd.  
Address: 2-15-7 mitsuyakita yodogawa-ku, Osaka-fu, Japan  
Name of section: R&D  
Phone number: :+81-(0)6-6308-1216  
Emergency call: :+81-(0)6-6308-1216  
Fax number: :+81-(0)6-6305-3018  
E-MAIL: kenkyuu@turner.co.jp  
Revised Date/Issued Date: Mar. 29. 2018  
Form No. : 1344-03

Colors: ■ Pastel Enamel, Pastel Peach, Pastel Pink, Pastel Sand, Pastel Lime, Pastel Emerald, Pastel Blue, Pastel Lavender, Pastel Lilac, Pastel Lemon, Pastel Orange, Pastel Rose, Pastel Green, Pastel Olive, Pastel Marine, Grayish Red, Grayish Beige, Grayish Brown, Grayish Green, Grayish Blue, Grayish Purple, Lumi. White, Lumi. Lemon, Lumi. Orange, Lumi. Red, Lumi. Blue, Lumi. Green, Lumi. Rose, Lame. Clear Opal, Lame. Clear Diamond, Lame. Yellow Opal, Lame. Green Emerald, Lame. Pink Coral, Lame. Blue Diamond, Lame. Purple Peridot, Lame. Lime Emerald, Lame. Orange Crystal, Lame. Marine Sapphire, Lame. Black Diamond, Lame. Gold, Lame. Silver, Colour Pearl White, Colour Pearl Lemon, Colour Pearl Yellow, Colour Pearl Pink, Colour Pearl Orange, Colour Pearl Red, Colour Pearl Magenta, Colour Pearl Lime, Colour Pearl Emerald, Colour Pearl Green, Colour Pearl Mint, Colour Pearl Aqua, Colour Pearl Turquoise, Colour Pearl Marine, Colour Pearl Indigo, Colour Pearl Lilac, Colour Pearl Violet, Colour Pearl Blackmixing

## 2. HAZARDS IDENTIFICATION

### GHS Classification

GHS Physical Hazards: Not applicable.  
GHS Health and Environmental Hazards: Not applicable.  
hazard pictograms: Not applicable.  
Signal word: Not applicable.  
Hazard statements: Not applicable.

Precautionary statements: Not applicable.  
Other hazards: Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

General product description: Acrylic emulsion paints

Ingredients and composition:	CAS No.	Remarks
acrylic emulsion	—	
carbon black	1333-86-4	
C. I. Pigment Blue 15	147-14-8	
C. I. Pigment Green 7	1328-53-6	
titanium dioxide	13463-67-7	
ferric oxide	1309-37-1	
iron hydroxide oxide yellow	51274-00-1	



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#### 4. FIRST - AID MEASURES

---

Eye contact: Remove any contact lenses at once.

Flush eyes well with flooding amounts of running water for at least 15 minutes. assure adequate flushing by separating the eyelids with sterile fingers.

If irritation persists, consult a physician.

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Skin contact: Remove all contaminated clothing.

Wash the affected area with plenty of water with mild soap

If irritation is continued, refer to medical attention.

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Inhalation: Remove the victim from the contamination immediately to fresh air.

If breathing is weak, irregular or has stopped, open his airway, loosen his shirt and belt and administer artificial respiration. And refer for medical attention.

---

Ingestion: Do not induce vomiting and refer to medical attention.

never give anything to someone who is unconscious.

---

---

#### 5. FIRE - FIGHTING MEASURES

---

Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and protect surrounding area.

Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide, smoke, fumes and oxides of carbon.

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#### 6. ACCIDENTAL RELEASE MEASURES

---

Personal precautions: Wear proper protective equipment.

In case of insufficient ventilation, wear suitable respiratory equipment.

Shut off all sources of ignition.

Avoid contact with skin and eyes.

Remove ignition sources and ventilate the area.

Evacuate personnel to safe area. evacuate non-essential personnel.

Environmental precautions: Do not wash away into sewer, watercourse or river.

Prevent spills from entering a lot of outflow, watercourses or low areas.

In order to prevent a lot of outflow, it should be with the ground etc.

Methods for cleaning up: Take up spilled material with ashes or other absorbents.

After material is completely picked up, wash the spill site with soap and water and ventilate the area.

Put all wastes in a plastic bag for disposal and seal it tightly.

Remove, clean, or dispose of contaminated clothing.

---

---

#### 7. HANDLING AND STORAGE

---

Handling: Keep away from sources of ignition. - No smoking. Avoid contact with eyes.

Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapour/spray.

Use only in well-ventilated areas. When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Storage: Keep out of the reach of children. Keep container in a well-ventilated place.

Keep away from food, drink and animal feedingstuffs.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Ingredient (s)	Exposure Limits (ACGIH-TLV)
carbon black	3.5mg/m <sup>3</sup>
C. I. Pigment Blue 15	—
C. I. Pigment Green 7	—
titanium dioxide	10mg/m <sup>3</sup>
ferric oxide	5mg/m <sup>3</sup> , as Fe
iron hydroxide oxide yellow	5mg/m <sup>3</sup> , as Fe

Exposure controls:

Occupational exposure controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable gloves.

Eye protection: Wear safety glasses with side shields.

Skin protection: Wear suitable protective clothing.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Physical State: Liquid.

Colour: By color

Odour: Slight

pH: 8.0 - 9.0

Boiling point / boiling range: 100°C (water)

Melting point / melting range: No information available.

Flash point: No information available.

Flammability (solid, gas): No information available.

Explosive properties: No information available.

Oxidising properties: No information available.

Vapour pressure: No information available.

Relative density (of concentrate): 1.0 - 1.5

Solubility (in water) (of concentrate): Complete.

Solubility (in oil) (of concentrate): Impossible

Partition coefficient: n-octanol/water: No information available.

Viscosity (of concentrate): No information available.

Miscibility: No information available.

Vapor density: No information available.

Evaporation rate: No information available.

Auto-ignition temperature: No information available.

Lower Flammability Limit: No information available.

Upper Flammability Limit: No information available.

---

## 10. STABILITY AND REACTIVITY

---

Stability: Stable under recommended storage conditions. Contents under pressure.

Container may explode if heated. Do not puncture. Do not burn.

Conditions to avoid: No dangerous reaction known under conditions of normal use.

Materials to avoid: Acids. Bases. Oxidizers. Reducing agents.

Hazardous decomposition products: No information available.

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## 11. TOXICOLOGICAL INFORMATION

---

- carbon black  
Acute toxicity-ORAL: LD50:>15400mg/kg(rat)
- C. I. Pigment Blue 15  
Acute toxicity-ORAL: LD50:>2000mg/kg(rat)
- C. I. Pigment Green 7  
Acute toxicity-ORAL: LD50:≥5000mg/kg(rat)
- titanium dioxide  
Acute toxicity-ORAL: LD50:>10000mg/kg(rat)
- ferric oxide  
No information available.
- iron hydroxide oxide yellow  
No information available.

---

## 12. ECOLOGICAL INFORMATION

---

Toxicity	No further relevant information available.
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behavior in environmental systems:	No further relevant information available.
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information:	No further relevant information available.

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## 13. DISPOSAL CONSIDERATIONS

---

Do not dump sewers, on the ground or into any of water.  
Consult an expert on the disposal of recovered material.  
Be sure to mention name, catalog number quantity of the material.  
Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

---

- Land transport  
Not classified as a dangerous good under transport regulations.
- Inland waterway transport  
Not classified as a dangerous good under transport regulations.
- Sea transport  
Not classified as a dangerous good under transport regulations.
- Air transport  
Not classified as a dangerous good under transport regulations.
- UN No.  
Not applicable  
It does not fall under the dangerous goods under the UN Recommendation.

---

## 15. REGULATORY INFORMATION

---

Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

---

## 16. OTHER INFORMATION

---

Disclaimer: Luminous / Grayish / Pastel / Lame Color series / Color Pearl carry AP mark .

The information contained in this document applies to this specific material as supplied.  
It may not be valid for this material if it is used in combination with any other materials.  
It is the user' s responsibility to satisfy oneself as to the suitability and completeness of this information for the user' s own particular use.

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND IDENTIFICATION

Chemical product name: ACRYL GOUACHE®  
Metallic / Japanesque Metallic  
Name of manufacturer: Turner Colour Works Ltd.  
Address: 2-15-7 mitsuyakita yodogawa-ku, Osaka-fu, Japan  
Name of section: R&D  
Phone number: :+81-(0)6-6308-1216  
Emergency call: :+81-(0)6-6308-1216  
Fax number: :+81-(0)6-6305-3018  
E-MAIL: kenkyuu@turner.co.jp  
Revised Date/Issued Date: Mar. 29. 2018  
Form No. : 1339-03

Colors: ■ Gold Light, Gold Deep, Silver, Gold Orange, Bronze, Copper, Antique Gold, Antique Bronze, Antique Silver, J. Blue Gold, J. Red Gold, J. Green Gold, J. Black Gold, J. Blue Bronze, J. Copper, J. Red Bronze, J. Silver, J. Black Silver

## 2. HAZARDS IDENTIFICATION

GHS Classification

GHS Physical Hazards: Not applicable.

GHS Health and Environmental Hazards:

Hazardous to the aquatic environment (acute) : category 3  
Hazardous to the aquatic environment (chronic) : category 3

hazard pictograms: NO  
pictogram  
Signal word: No signal word

Hazard statements:

H402 Harmful to aquatic life  
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P273 Avoid release to the environment.

Other hazards:

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

General product description: Acrylic emulsion paints

Ingredients and composition:		CAS No.	Remarks
acrylic emulsion		—	
carbon black		1333-86-4	
chromium(iii) oxide		1308-38-9	PRTR Law
chromium and its compounds			
tin(IV) oxide		18282-10-5	
titanium dioxide		13463-67-7	
ferric oxide		1309-37-1	
iron hydroxide oxide yellow		51274-00-1	

Composition Ingredient(%)	colors	chromium(iii) oxide as Cr
	GOLD LIGHT	-1%
	GOLD DEEP	-1%
	GOLD ORANGE	-1%
	J. BLUE GOLD	-1%
	J. RED GOLD	-1%
	J. BLUE BRONZE	-1%
	J. COPPER	-1%
	J. SILVER	-1%

---

#### 4. FIRST - AID MEASURES

---

Eye contact: Remove any contact lenses at once.

Flush eyes well with flooding amounts of running water for at least 15minutes.  
assure adequate flushing be separating the eyelids with sterile fingers.  
If irritation oersists, consult a physician.

-----  
Skin contact: Remove all contaminated clothing. .

Washthe affected area with plenty of water with mild soap  
If irritation is continued, refer to medical attention.

-----  
Inhalation: Remove the victim from the contamination immediately to fresh air.

If breathing is weak, irregular or has stopped, open his airway, loosen his and belt  
and adminisiter artificial respiration. And refer for medical attention.

-----  
Ingestion: Do not induce vomiting and refer to medical attention.

never give anything to someone who is unconscious.

---

#### 5. FIRE - FIGHTING MEASURES

---

Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and project surrounding area.  
Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide, smoke, fumes and oxides of carbon.

---

#### 6. ACCIDENTAL RELEASE MEASURES

---

Personal precautions: Wear proper protective equipment.

In case of insufficient ventilation, wear suitable respiratory equipment.

Shut off all sources of ignition.

Avoid contact with skin and eyes.

Remove ignition sources and ventilate the area.

Evacuate personnel to safe area. evacuate non-essential personnel.

Environmental precautions: Do not wash away into sewer, watercourse or river.

Prevent spills from entaering a lot of outflow, watercourses or low areas.

In oder to prevent a lot of outflow, it shoulds with the ground etc.

Methods for cleaning up: Take up spilled material with ashes or other absorbents.

After material is completely picked up, wash the spill site with soap and water  
and ventilate the area.

Put all wastes in a plastic bag for disposal and seal it tightly.

Remove, clean, or dispose of contaminated clothing.

---

## 7. HANDLING AND STORAGE

---

Handling: Keep away from sources of ignition. – No smoking. Avoid contact with eyes.  
Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapour/spray.  
Use only in well-ventilated areas. When using do not eat or drink.  
Wash hands before breaks and immediately after handling the product.

Storage: Keep out of the reach of children. Keep container in a well-ventilated place.  
Keep away from food, drink and animal feedingstuffs.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

Ingredient (s)	Exposure Limits (ACGIH-TLV)
carbon black	3.5mg/m <sup>3</sup>
chromium(iii) oxide	0.5mg/m <sup>3</sup> , as Cr
tin(IV) oxide	2.0mg/m <sup>3</sup> (TWA), as Sn
titanium dioxide	10mg/m <sup>3</sup>
ferric oxide	5mg/m <sup>3</sup> , as Fe
iron hydroxide oxide yellow	5mg/m <sup>3</sup> , as Fe

### Exposure controls:

Occupational exposure controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable gloves.

Eye protection: Wear safety glasses with side shields.

Skin protection: Wear suitable protective clothing.

Environmental exposure controls: Maintain levels below Community environmental protection thresholds.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.

Colour: By color

Odour: Slight

pH: 8.0 – 9.0

Boiling point / boiling range: 100°C (water)

Melting point / melting range: No information available.

Flash point: No information available.

Flammability (solid, gas): No information available.

Explosive properties: No information available.

Oxidising properties: No information available.

Vapour pressure: No information available.

Relative density (of concentrate): 1.1 – 1.3

Solubility (in water) (of concentrate): Complete.

Solubility (in oil) (of concentrate): Impossible

Partition coefficient: n-octanol/water: No information available.

Viscosity (of concentrate): No information available.

Miscibility: No information available.

Vapor density: No information available.

Evaporation rate: No information available.

Auto-ignition temperature: No information available.

Lower Flammability Limit: No information available.

Upper Flammability Limit: No information available.

---

## 10. STABILITY AND REACTIVITY

---

Stability: Stable under recommended storage conditions. Contents under pressure.

Container may explode if heated. Do not puncture. Do not burn.

Conditions to avoid: No dangerous reaction known under conditions of normal use.

Materials to avoid: Acids. Bases. Oxidizers. Reducing agents.

Hazardous decomposition products: No information available.

---

## 11. TOXICOLOGICAL INFORMATION

---

■ carbon black

Acute toxicity-ORAL: LD50:>15400mg/kg(rat)

■ chromium(iii) oxide

No information available.

■ tin(IV) oxide

Acute toxicity-ORAL: LD50:>20g/kg(rat)

■ titanium dioxide

Acute toxicity-ORAL: LD50:>10000mg/kg(rat)

■ ferric oxide

No information available.

■ iron hydroxide oxide yellow

No information available.

---

## 12. ECOLOGICAL INFORMATION

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Toxicity:	No further relevant information available.
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behavior in environmental systems:	No further relevant information available.
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information:	No further relevant information available.

---

## 13. DISPOSAL CONSIDERATIONS

---

Do not dump sewers, on the ground or into any of water.

Consult an expert on the disposal of recovered material.

Be sure to mention name, catalog number quantity of the material.

Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

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■ Land transport

Not classified as a dangerous good under transport regulations.

■ Inland waterway transport

Not classified as a dangerous good under transport regulations.

■ Sea transport

Not classified as a dangerous good under transport regulations.

■ Air transport

Not classified as a dangerous good under transport regulations.

■ UN No.

Not applicable

It does not fall under the dangerous goods under the UN Recommendation.

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#### 15. REGULATORY INFORMATION

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Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

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#### 16. OTHER INFORMATION

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Disclaimer: Metallic / Japanesque Metallic carry AP mark .

The information contained in this document applies to this specific material as supplied.

It may not be valid for this material if it is used in combination with any other materials.

It is the user' s responsibility to satisfy oneself as to the suitability and completeness of this information for the user' s own particular use.



# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND IDENTIFICATION

Chemical product name: ACRYL GOUACHE Jet Black  
Name of manufacturer: Turner Colour Works Ltd.  
Address: 2-15-7, Mitsuyakita, Osaka Shi Yodogawa Ku, Osaka Fu, 532-0032, Japan  
Name of section: R&D  
Phone number: :+81-(0)6-6308-1216  
Emergency call: :+81-(0)6-6308-1216  
Fax number: :+81-(0)6-6305-3018  
E-MAIL: kenkyuu@turner.co.jp  
Revised Date/Issued Date: Apr. 09. 2019  
Form No. : 1338-04

## 2. HAZARDS IDENTIFICATION

### GHS Classification

#### Health Hazard :

Reproductive toxicity: category 2

#### Environmental Hazards:

Not applicable.

#### hazard pictograms:



silhouette

#### Signal word:

Warning

#### Hazard statements:

H361 Suspected of damaging fertility or the unborn child.

#### Precautionary statements:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280f Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

#### Other hazards:

P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture: Mixture

General product description: Acrylic emulsion paints

Ingredients and composition:	(%)	CAS No.	Remarks
acrylic emulsion	22%	—	
Aniline Black	27%	13007-86-8	
included [chromium(iii) oxide]		1308-38-9	PRTR Law
included [water-soluble copper salts]			PRTR Law
Thickener	3.58%	secret	
1,2-Propanediol	1.42%	57-55-6	
3-Hydroxy-2,2,4-trimethylpentyl Isobutyrate	1.16%	25265-77-4	
polyethyleneglycol octylphenyl ether	0.51%	9036-19-5	
2-Amino-2-methyl-1-propanol	0.47%	124-68-5	
Hydroxyethyl Cellulose	0.37%	9004-62-0	
Antifoaming Agent	0.31%	secret	
Sodium alkyl naphthalene sulfonate	0.27%	secret	
2,4,7,9-Tetramethyl-5-decyne-4,7-diol	0.21%	126-86-3	
Phthalocyanine	0.11%	secret	
2-Butylbenzo[d]isothiazol-3(2H)-one	0.10%	4299-07-4	
1,2-Benzisothiazol-3(2H)-one	0.09%	2634-33-5	
Dispersible polymer	0.07%	secret	
Polyether	0.03%	secret	
2-Chloroacetamide	0.02%	79-07-2	
Water	42.55%	7732-18-5	
<b>TOTAL</b>	<b>100%</b>		

**4. FIRST - AID MEASURES**

Eye contact: Remove any contact lenses at once.

Flush eyes well with flooding amounts of running water for at least 15minutes.  
 assure adequate flushing be separating the eyelids with sterile fingers.  
 If irritation oersists, consult a physician.

-----  
 Skin contact: Remove all contaminated clothing..

Washthe affected area with plenty of water with mild soap  
 If irritation is continued, refer to medical attention.

-----  
 Inhalation: Remove the victim from the contamination immediately to fresh air.

If breathing is weak, irregular or has stopped, open his airway, loosen his and belt  
 and adminisiter artificial respiration. And refer for medical attention.

-----  
 Ingestion: Do not induce vomiting and refer to medical attention.

never give anything to someone who is unconscious.

**5. FIRE - FIGHTING MEASURES**

Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and project surrounding area.

Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide, smoke, fumes and oxides of carbon.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

Personal precautions: Wear proper protective equipment.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Shut off all sources of ignition.  
Avoid contact with skin and eyes.  
Remove ignition sources and ventilate the area.  
Evacuate personnel to safe area. evacuate non-essential personnel.

Environmental precautions: Do not wash away into sewer, watercourse or river.  
Prevent spills from entering a lot of outflow, watercourses or low areas.  
In order to prevent a lot of outflow, it should be with the ground etc.

Methods for cleaning up: Take up spilled material with ashes or other absorbents.  
After material is completely picked up, wash the spill site with soap and water and ventilate the area.  
Put all wastes in a plastic bag for disposal and seal it tightly.  
Remove, clean, or dispose of contaminated clothing.

---

## 7. HANDLING AND STORAGE

---

Handling: Keep away from sources of ignition. - No smoking. Avoid contact with eyes.  
Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapour/spray.  
Use only in well-ventilated areas. When using do not eat or drink.  
Wash hands before breaks and immediately after handling the product.  
Storage: Keep out of the reach of children. Keep container in a well-ventilated place.  
Keep away from food, drink and animal feedingstuffs.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

Ingredient (s)	Exposure Limits (ACGIH-TLV)
chromium(iii) oxide	0.5mg/m <sup>3</sup> , as Cr
water-soluble copper salts	1mg/m <sup>3</sup> , as Cu

### Exposure controls:

Occupational exposure controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Personal protective equipment:

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable gloves.

Eye protection: Wear safety glasses with side shields.

Skin protection: Wear suitable protective clothing.

### Environmental exposure controls:

Maintain levels below Community environmental protection thresholds.

### General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Liquid.  
Colour: Black  
Odour: Slight  
pH: 8.0 - 9.0  
Boiling point / boiling range: 100°C (water)  
Melting point / melting range: No information available.  
Flash point: No information available.  
Flammability (solid, gas): No information available.  
Explosive properties: No information available.  
Oxidising properties: No information available.  
Vapour pressure: No information available.  
Relative density (of concentrate): 1.134  
Solubility (in water) (of concentrate): Complete.  
Solubility (in oil) (of concentrate): Impossible  
Partition coefficient: n-octanol/water: No information available.  
Viscosity (of concentrate): No information available.  
Miscibility: No information available.  
Vapor density: No information available.  
Evaporation rate: No information available.  
Auto-ignition temperature: No information available.  
Lower Flammability Limit: No information available.  
Upper Flammability Limit: No information available.

---

## 10. STABILITY AND REACTIVITY

---

Stability: Stable under recommended storage conditions. Contents under pressure.  
Container may explode if heated. Do not puncture. Do not burn.  
Conditions to avoid: No dangerous reaction known under conditions of normal use.  
Materials to avoid: Acids. Bases. Oxidizers. Reducing agents.  
Hazardous decomposition products: No information available.

---

## 11. TOXICOLOGICAL INFORMATION

---

- chromium(iii) oxide  
No information available.
- water-soluble copper salts  
No information available.

---

## 12. ECOLOGICAL INFORMATION

---

Toxicity: No further relevant information available.  
Aquatic toxicity:  
■ chromium(iii) oxide  
Hazardous to the aquatic environment (acute) : category 1  
Hazardous to the aquatic environment (chronic) : category 1  
  
Persistence and degradability: No further relevant information available.  
Behavior in environmental systems: No further relevant information available.  
Bioaccumulative potential: No further relevant information available.  
Mobility in soil: No further relevant information available.  
Additional ecological information: No further relevant information available.

---

## 13. DISPOSAL CONSIDERATIONS

---

Do not dump sewers, on the ground or into any of water.  
Consult an expert on the disposal of recovered material.  
Be sure to mention name, catalog number quantity of the material.  
Disposal must be made according to official regulations.

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#### 14. TRANSPORT INFORMATION

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■ Land transport

Not classified as a dangerous good under transport regulations.

■ Inland waterway transport

Not classified as a dangerous good under transport regulations.

■ Sea transport

Not classified as a dangerous good under transport regulations.

■ Air transport

Not classified as a dangerous good under transport regulations.

■ UN No.

Not applicable

It does not fall under the dangerous goods under the UN Recommendation.

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#### 15. REGULATORY INFORMATION

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Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

■ Law concerning Pollutant Release and Transfer Register / PRTR Law

chromium(iii) oxide(Class1 No.87), water-soluble copper salts(class1 No.272)

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#### 16. OTHER INFORMATION

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Disclaimer: JET BLACK carry CL mark.

The information contained in this document applies to this specific material as supplied.

It may not be valid for this material if it is used in combination with any other materials.

It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

# SAFETY DATA SHEET

## 1.CHEMICAL PRODUCT AND IDENTIFICATION

Chemical product name: TURNER Acryl Gouache Glass Primer, Metal Primer

Colors: Lemon, Light Green, Sky Blue, Blue Compose, Vermilion, Scarlet, Orange, Green, Deep Green, Ultramarine, Violet, Rose, Pink, Viridian, Opera red, Red Purple

Name of manufacturer: Turner Colour Works Ltd.

Address: 2-15-7 mitsuyakita yodogawa-ku,Osaka-fu,Japan

Name of section: R&D

Phone number: +81- (0) 6-6308-1216

Emergency call: +81- (0) 6-6308-1216

Fax number: +81- (0) 6-6305-3018

E-MAIL: [kenkyuu@turner.co.jp](mailto:kenkyuu@turner.co.jp)

Revised Date/Issued Data: Mar.29.2018

Form No.: 2033-03

## GHS Classification

### Physical Hazards:

Without the need of classification

### Health Hazards:

Classification not possible, Not classified

### Environment Hazards:

Classification not possible, Not classified

### Hazard symbol

None

### Signal word

**None**

### Hazard statement

None

## Precautionary statements

### Security precaution:

None

### Response:

None

### storage:

P405 Store locked up.

### Disposal:

P501 Properly dispose of to be in accordance with the laws and regulations of the contents / container .

---

**3.COMPOSITION/INFORMATION ON INGREDIENTS**

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Substance/Mixture: Mixture

General product description: Synthetic resin paints

Ingredients and composition (%):

Name of substance	Acrylic emulsion	
Cas No.	secret	
Glass Primer	75-80	
Metal Primer	75-80	

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**4.FIRST – AID MEASURES**

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**Eye contact:** Flush eyes well with flooding amounts of running water for at least 15minutes.

Remove contact lenses, if worn next to easily remove them.

Wash thoroughly to the back of the eyelids.

Take a doctor's diagnosis as soon as possible.

-----  
**Skin contact:** Wipe off deposits quickly with cloth.

Wash thoroughly with large amounts of water and soap or skin detergent.

Do not use solvent or thinner.

If there is a change in appearance,

if there is irritation / pain, if you feel uncomfortable get a doctor's diagnosis.

-----  
**Inhalation:** If you feel bad by inhaling steam, gas, etc.

move to a fresh air place and rest in a posture that is easy to breathe.

If you feel unwell, call a doctor.

If symptoms persist, call a doctor.

-----  
**Ingestion:** In case of accidental swallowing, get medical attention immediately after taking a rest.

Do not swallow vomit.

Do not induce vomiting except by doctor's instructions.

---

**5.FIRE – FIGHTING MEASURES**

---

Specific hazards regarding with fire fighting measure:

Apply water from a safe distance to cool and project surrounding area.

Firefighters should wear proper protective equipment and self-breathing apparatus.

Suitable extinguishing media: Water/Dry chemical powder/Carbon dioxide/Foam and dry sand.

Hazardous combustion products: Carbon monoxide,smoke,fumes and oxides of carbon.

---

**6.ACCIDENTAL RELEASE MEASURES**

---

**Personal precautions:** Wear proper protective equipment.

In case of insufficient ventilation,wear suitable respiratory equipment.

Shut off all sources of ignition.

Avoid contact with skin and eyes.

Remove ignition sources and ventilate the area.

Evacuate personnel to safe area.evacuate non-essential personnel.

**Environmental precautions:** Do not wash away into sewer,watercourse or river.

Prevent product from discharging into the environment.

After collecting spills, wash with plenty of water and dispersing agent.

**Methods for cleaning up:** Collect the spill into a sealable container and transfer it to a safe place.

Handle deposits, waste, etc. according to relevant laws and regulations.

Recovers with scoops, waste etc.

Put all wastes in a plastic bag for disposal and seal it tightly.

In case of large amount of embankment etc. to prevent spills. Washing with water, etc., also cause emissions to rivers and the like, causing environmental pollution, so be careful.

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---

## 7.HANDLING AND STORAGE

---

**Handling:** Handle in a well-ventilated place.

Keep containers tightly closed each time.

Touch the skin, mucosa, or clothing, and wear protective equipment to prevent contact with eyes.

Wash hands, face etc thoroughly after handling, do not bring pollution protective equipment such as gloves to resting place etc.

**Storage:** Keep out of the reach of children. Keep container in a well-ventilated place.

Keep away from food, drink and animal feedingstuffs.

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## 8.EXPOSURE CONTROLS/PERSONAL PROTECTION

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Ingredient(s)	Exposure Limits (ACGIH-TLV)
N/A	

### Exposure controls

**Occupational exposure controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Personal protective equipment

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection:** Wear suitable gloves.

**Eye protection:** Wear safety glasses with side shields.

**Skin protection:** Wear suitable protective clothing.

**Environmental exposure controls:** Maintain levels below Community environmental protection thresholds.

**General hygiene considerations:** Handle in accordance with good industrial hygiene and safety practice.

---

---

## 9.PHYSICAL AND CHEMICAL PROPERTIES

---

**Appearance:** Liquid.

**Colour:** Transparent after drying

**Odour:** Acrylic odor

**pH:** 8.0 - 9.0

**Boiling point / boiling range:** 100°C(Water)

**Melting point / melting range:** No information available.

**Flash point:** No information available.

**Flammability (solid, gas):** No information available.

**Explosive properties:** No information available.

**Oxidising properties:** No information available.

**Vapour pressure:** No information available.

**Relative density (of concentrate):** 1.00 - 1.10

**Solubility (in water) (of concentrate):** Complete.

**Solubility (in oil) (of concentrate):** Impossible

**Partition coefficient: n-octanol/water:** No information available.

**Viscosity (of concentrate):** No information available.

**Miscibility:** No information available.

**Vapor density:** No information available.

**Evaporation rate:** No information available.

**Auto-ignition temperature:** No information available.

**Lower Flammability Limit:** No information available.

**Upper Flammability Limit:** No information available.



---

**10.STABILITY AND REACTIVITY**

---

Stability: Stable under recommended storage conditions.

Conditions to avoid: No dangerous reaction known under conditions of normal use.

Incompatible hazardous substance: Reacts with oxidizing substances.

Hazardous decomposition products: If this material does not burn, if the coating etc. burns, it may generate harmful gas such as CO, NOx, halogen gas.

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**11.TOXICOLOGICAL INFORMATION**

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Component	Acute toxicity			IARC group
	Oral(mg/kg)	Percutaneous(mg/kg)	Inhalation: steam(mg/L)	
N/A				

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**12.ECOLOGICAL INFORMATION**

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Component	HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE)	HAZARDOUS TO THE AQUATIC ENVIRONMENT (CHRONIC)
N/A		

---

**13.DISPOSAL CONSIDERATIONS**

---

Do not dump sewers, on the ground or into any of water.  
Consult an expert on the disposal of recovered material.  
Be sure to mention name, catalog number quantity of the material.  
Disposal must be made according to official regulations.

---

**14.TRANSPORT INFORMATION**

---

■Land transport

Not classified as a dangerous good under transport regulations.

■Inland waterway transport

Not classified as a dangerous good under transport regulations.

■Sea transport

Not classified as a dangerous good under transport regulations.

■Air transport

Not classified as a dangerous good under transport regulations.

■UN No.

Not applicable

It does not fall under the dangerous goods under the UN Recommendation.

---

**15.REGULATORY INFORMATION**

---

Regulatory information with regard to this substance in your country or in your region be examined by your own responsibility.

---

**Disclaimer:** The information contained in this document applies to this specific material as supplied.  
It may not be valid for this material if it is used in combination with any other materials.  
It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.