

SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 453/2010)

Version 1
Product Name Acrylic Color - SPIRIT Brand

Issue Date 10-May-2022
Revision date 10-May-2022

SECTION 1: Identification of the substance /mixture and of the company/undertaking

1.1. Product identifier

Product Name Acrylic Color (TTS 407793-TTS 407813)
Product Color Refer to the colour listed in the last page.
CAS No Not applicable
REACH registration number No information available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Paint
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Company name Yancheng Tiandi International Trade Co.,Ltd
Address No.12 East Yanhe Road,Yancheng,Jiangsu,China
Postal Code 224001
Phone 0515-69939690
FAX 0515-88362233
E-mail apsis2@apsisarts.com

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC
Not classified

2.2. Label elements

Symbols/Pictograms None
Signal word None
Hazard Statements Not applicable
Precautionary Statements Not applicable

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1 Mixture

Chemical Name	EC No	CAS No	Weight-%	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polyacrylic acid	618-347-7	9003-01-4	60.0	Not classified	Not classified
Barium sulfate	231-784-4	7727-43-7	17.0	Xn; R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H332)

Ultramarine	309-928-3 611-533-9	57455-37-5	0-12.0	Not classified	Not classified
Titanium white	236-675-5	13463-67-7	0-12.0	Not classified	Not classified
Ocher	-	37338-85-5	0-12.0	Not classified	Not classified
Phthalo blue	205-685-1	147-14-8	0-12.0	Not classified	Not classified
Pigment red	225-935-3	5160-02-1	0-12.0	Xn; R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H332)
Pigment blue	237-875-5	14038-43-8	0-12.0	Not classified	Not classified
Yellow iron oxide	257-098-5	51274-00-1	0-12.0	Not classified	Not classified
Phthalo green	215-524-7	1328-53-6	0-12.0	Not classified	Not classified
Crimson red	219-372-2	2425-85-6	0-12.0	Not classified	Not classified
Iron oxide black	235-442-5	12227-89-3	0-12.0	Not classified	Not classified
Yellow 10G	229-355-1	6486-23-3	0-12.0	Not classified	Not classified
Water	231-791-2	7732-18-5	10.0	Not classified	Not classified
Sodium pdyacrylate	618-349-8	9003-04-7	1.0	Not classified	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact

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.

Ingestion

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

No information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas
Ensure adequate ventilation, especially in confined areas
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)
Avoid contact with eyes
Do not breathe dust/fume/gas/mist/vapors/spray
Use personal protection recommended in Section 8

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained
Prevent entry into waterways, sewers, basements or confined areas

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13)

6.4. Reference to other sections

See Section 7 for more information
See section 8 for more information
See section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice
Ensure adequate ventilation, especially in confined areas
Keep away from heat, sparks, flame and other sources of ignition
Avoid contact with eyes
Do not breathe dust/fume/gas/mist/vapors/spray
Do not eat, drink or smoke when using this product
Wash thoroughly after handling
Use personal protection recommended in Section 8

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place
Keep away from heat, sparks, flame and other sources of ignition
Keep locked up and out of reach of children
Keep away from food, drink and animal feeding stuffs
Store in accordance with local regulations

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
Barium sulfate (CAS #: 7727-43-7)	10 mg/m ³	-	-	-	-
Titanium white (CAS #: 13463-67-7)	10 mg/m ³	STEL 10 mg/m ³ TWA: 5 mg/m ³	-	TWA: 6 mg/m ³	-
Phthalo blue (CAS #: 147-14-8)	-	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	-	-	-
Pigment red (CAS #: 5160-02-1)	0.5 mg/m ³	STEL 2 mg/m ³ TWA: 0.5 mg/m ³	-	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³ Ba

Pigment blue (CAS #: 14038-43-8)	1 mg/m ³	-	-	TWA: 1 mg/m ³	-
Phthalo green (CAS #: 1328-53-6)	-	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	-	-	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Barium sulfate (CAS #: 7727-43-7)		-	-	TWA: 4 mg/m ³ TWA: 1.5 mg/m ³ TWA: 0.5 mg/m ³ Ceiling / Peak: 4 mg/m ³	-
Titanium white (CAS #: 13463-67-7)	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	Skin	-
Phthalo blue (CAS #: 147-14-8)	TWA: 5 mg/m ³	-	TWA: 1 mg/m ³	-	-
Pigment red (CAS #: 5160-02-1)	TWA: 0.5 mg/m ³ Skin	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³ Ceiling / Peak: 4 mg/m ³	TWA: 0.5 mg/m ³
Pigment blue (CAS #: 14038-43-8)		TWA: 5 mg/m ³	TWA: 1 mg/m ³ STEL: 5 mg/m ³ Skin	TWA: 2 mg/m ³ Ceiling / Peak: 2 mg/m ³ Skin	-
Phthalo green (CAS #: 1328-53-6)		-	TWA: 1 mg/m ³	-	-
Sodium pdyacrylate (CAS #: 9003-04-7)		-	-	TWA: 0.05 mg/m ³ Ceiling / Peak: 0.05 mg/m ³ Skin	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Pigment red (CAS #: 5160-02-1)	-	-	-	-	TWA: 0.5 mg/m ³
Pigment blue (CAS #: 14038-43-8)	-	-	-	-	Skin STEL: 10 mg/m ³ TWA: 1 mg/m ³

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Barium sulfate (CAS #: 7727-43-7)	TWA: 0.5 mg/m ³ STEL: 0.5 mg/m ³	-	TWA: 5 mg/m ³ inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Titanium white (CAS #: 13463-67-7)	TWA: 5 mg/m ³ STEL: 5 mg/m ³	-	TWA: 10 mg/m ³	-	IDLH: 5000 mg/m ³
Phthalo blue (CAS #: 147-14-8)	-	-	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist
Pigment red (CAS #: 5160-02-1)	TWA: 0.5 mg/m ³ STEL: 0.5 mg/m ³	-	TWA: 0.5 mg/m ³ Ba	-	TWA: 0.5 mg/m ³ except Barium sulfate Ba
Pigment blue (CAS #: 14038-43-8)	TWA: 5 mg/m ³ Skin STEL: 5 mg/m ³	-	TWA: 1 mg/m ³ Fe	-	IDLH: 25 mg/m ³ CN TWA: 1 mg/m ³ Fe
Phthalo green (CAS #: 1328-53-6)	-	-	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls**Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition.

Personal protective equipment

Eye/face protection	Avoid contact with eyes.
Hand Protection	Wear protective gloves.
Skin and body protection	No special technical protective measures are necessary
Respiratory protection	Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Color	Titanium white, lemon yellow, yellow ochre, vermilion, crimson red, sap green, viridian, cerulean blue, ultramarine blue, burnt sienna, burnt umber, lamp black
Odor	Odorless
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not applicable
Vapor Pressure	Not determined
Vapor density	Not applicable
Density	Not determined
Relative density	Not determined
Specific gravity	Not determined
Water solubility	Insoluble in water
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not applicable
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	No oxidation

9.2. Other information

No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Nitrogen oxides, sulfur oxides, chlorides.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyacrylic acid (CAS #: 9003-01-4)	10250 mg/kg (rat, carbomer 910) 4100 mg/kg (rat, carbomer 943)	3 g/kg (rat, carbomer 910)	1.71 mg/L (rat)
Barium sulfate (CAS #: 7727-43-7)	307 g/kg(rat)	-	-
Titanium white (CAS #: 13463-67-7)	> 5000 mg/kg (Rat)	-	>6.82mg/L air/4h(Rat)
Pigment red (CAS #: 5160-02-1)	> 2000 mg/kg (Rat)	-	-
Phthalo green (CAS #: 1328-53-6)	> 3000 mg/kg (Rat)	-	-
Water (CAS #: 7732-18-5)	> 90 mL/kg (Rat)	-	-
Sodium pdyacrylate (CAS #: 9003-04-7)	> 40 g/kg (Rat)	-	-

Skin corrosion/irritation

No skin irritation responses were observed.

Serious eye damage/eye irritation

No eye irritation responses were observed.

Sensitization

No sensitization responses were observed.

Germ cell mutagenicity

No information available.

Carcinogenicity

Chemical Name	European Union	IARC
Polyacrylic acid (CAS #: 9003-01-4)	-	Group 3
Titanium white (CAS #: 13463-67-7)	-	2B
Pigment red (CAS #: 5160-02-1)	-	Group 3
Crimson red (CAS #: 2425-85-6)	-	Group 3

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Polyacrylic acid (CAS #: 9003-01-4)	-	580: 96 h <i>Lepomis macrochirus</i> mg/L LC50	-
Titanium white (CAS #: 13463-67-7)	NOEC: 1 mg/L/72h <i>Pseudokirchnerella subcapitata</i>	1000mg/L/48h(<i>Leuciscus idus</i>)	1000mg/L/48h(<i>Leuciscus idus</i>)
Phthalo blue (CAS #: 147-14-8)	-	100: 48 h <i>Oryzias latipes</i> mg/L LC50 static	-
Pigment red (CAS #: 5160-02-1)	-	500: 96 h <i>Brachydanio rerio</i> mg/L LC50 static	-
Phthalo green (CAS #: 1328-53-6)	-	752.4: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
Phthalo blue (CAS #: 147-14-8)	6.6

Chemical Name	Bioconcentration factor (BCF)
Phthalo blue (CAS #: 147-14-8)	0.3 - 11
Pigment red (CAS #: 5160-02-1)	0.9 - 15
Phthalo green (CAS #: 1328-53-6)	0.51 - 74

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations

SECTION 14: Transport information

14.1. UN Number	Not regulated
14.2. Proper shipping name	Not regulated
14.3. Hazard Class	Not regulated
14.4. Packing Group	Not regulated
14.5. Environmental hazards	Non-marine pollutant
14.6. Special precautions	No information available
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Polyacrylic acid 9003-01-4 (60%)	X	X	-	X	X	X	X	X
Barium sulfate 7727-43-7 (17%)	X	X	X	X	X	X	X	X
Ultramarine 57455-37-5 (0-12.0%)	X	X	-	X	X	X	X	X
Titanium white 13463-67-7 (0-12.0%)	X	X	X	X	X	X	X	X
Ocher 37338-85-5 (0-12.0%)	-	X	-	-	-	-	-	-
Phthalo blue 147-14-8 (0-12.0%)	X	X	X	X	X	X	X	X
Pigment red 5160-02-1 (0-12.0%)	X	X	X	X	X	X	X	X
Pigment blue 14038-43-8 (0-12.0%)	X	X	X	-	X	X	X	X
Yellow iron oxide 51274-00-1 (0-12.0%)	X	X	X	X	X	X	X	X
Phthalo green 1328-53-6 (0-12.0%)	X	X	X	X	X	X	X	X
Crimson red 2425-85-6 (0-12.0%)	X	X	X	X	X	X	X	X
Iron oxide black 12227-89-3 (0-12.0%)	X	X	X	X	X	X	X	X
Yellow 10G 6486-23-3 (0-12.0%)	X	X	X	X	X	X	X	X
Water 7732-18-5 (10%)	X	X	X	Expect	X	X	X	X
Sodium polyacrylate 9003-04-7 (1%)	X	X	-	X	X	X	X	X

"-" Not Listed

"X" Listed

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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Revision Note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H332 - Harmful if inhaled

Full text of R-phrases referred to under sections 2 and 3

R20/22 - Harmful by inhalation and if swallowed

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----