

ABS-MSDS

Part I: Supplier Information

Product: ABS Resin Item# Tairilac AG1000,AG100H,AG12AO,AG12A1,etc.

Supplier: Taiwan chemical fiber co., LTD

Address: Address: no.1 zhongyang industrial zone, xingang township, jiayi county

Phone: +886-5-3772111-645

Emergent Contact: +886-5-3772111-645

Part II: Composition Data

Product: ABS Resin (Acrylonitrile-Butadiene styrene copolymer)

Component

content (%)

CAS.NO.

ABS Resin

>98%

9003-56-9

Others

≤2%

Part III Hazard Data

Hazardous Category: NO, not in GHS 27 hazard classification.

Other hazardous:

Eyes: fine powder or smoke from processing may cause irritation to eyes.

Skin: high temperature melting state during the processing, if contact with the skin may cause skin burns.

Inhalation: fine powder or smoke from processing, if enter the respiratory tract may cause irritation.

Ingestion: a small amount of accidental ingestion, basically no harm; Large amount of accidental ingestion, suggest medical treatment to remove.

Part IV: First Aid

Inhalation: The shape suggests that it is not necessarily colloidal particles that are being inhaled. The gases produced by fused resin are inhaled, moved to fresh air. Seek medical advice immediately if have a cough or difficulty breathing Eye Contact: When the granule enters the eye, do not knead the eye, rinse immediately with clear water. Remove the penetrant immediately. Seek medical advice immediately if there is any abnormality. Cannot knead, will stimulate or injure comea.

Inhalation: Although it may not occur, it is not highly toxic even when ingested. If ingesting large amounts, seek medical advice immediately

Skin contact: Rinse with water. Wash your skin with soap immediately after contact with gases from hot substances.

Most important symptom and harm effect: no harm without processing. During processing, scald damage.

Protection for first responders: wear dust mask and safety glasses.

Note to physicians: No special antidote is required.

Supportive therapy should be given depending on the patient's symptoms.

Part V: Fire Suppression

Suitable fire extinguishing agent: water spray, multi-purpose fire extinguisher. Fire hazards: high temperature may cause decomposition of polymers, which may produce smoke or fragments of polymers, which may contain irritants and/or toxic substances. Lack of oxygen will release smoke; mechanical treatment will produce dust. So during operation, dust accumulation should be prevented from causing explosion.

Fire extinguishing equipment: fire fighters should wear full fireproof clothing. If there is not enough fresh air in the surrounding environment, they should wear positive pressure air breathing apparatus (SCBA). If there is not enough safety protective equipment, fire fighters should use fire extinguishing equipment at a safe place away from the safe distance to extinguish the fire.

Part VI: Disposure of Leakage

Emergency treatment: clean up when leaking, and recycle after separating impurities.

Notice for individual: Spill on the floor or stairs, will occur slip or fall risk, should be removed immediately

Notice for environment: accidental leakage will pollute the environment and must be collected and treated immediately.

Part VII: Safe Disposure and Deposit

Notice of Operation: Process gases can irritate the respiratory organs and skin, causing vomiting and headaches when inhaled in large amounts.

Dust will be generated during granulation, which will cause static electricity and dust explosion. Therefore, the workplace must be kept clean and dust collection should be done well.

Notice of Deposit: Should be placed in a dry and cool place, avoid the sun and close to the source of heat. Stack storage, should be anti - dumping.

Part VIII: Protection under Exposure

Concentration Control: good adequate air circulation is generally required. For some special or normal operations, air extraction equipment may be required. Permissible parameters: inhalable dust concentration of 5 mg/m 3 /(maximum concentration of 10 mg/m 3 throughout the day).

Personal protective equipment:

Respiratory protection: low concentration protective mask

Hand protection: latex gloves

Eye protection: protective safety goggles

Skin and body protection: long sleeve work clothes.

Hygiene measures: if fine powder remains after contact with colloidal particles,

cleaning is recommended.

Part IX: Physical Property

Substance State: solid

Color: White

Shape: granular (3mm)

Smell: light plastic

PH: NO

Melting Point:> 130°C

Spontaneous ignition point: 466°C(ASTM-D1929-77)

Density: 1.03~1.07/25°C

Part X: Stability and Reaction

Stability: Stable

Avoiding state: High temperature and direct sunlight

Prohibited substances: Substances to avoid: strong oxidant.

Decomposed substance: high temperatures during manufacturing operations can

lead to soot, including polymer fragments that can cause irritation.

Part XI: Toxicity Date

Urgent toxicity: ND

Sensitivity: ND

Slow or long toxicity: ND

Irritation: ND

Part XII: Environment Data

Possible effects on environmental / environmental circulation: the land-based environment will remain in the soil without decomposition by biochemical processes; In the aquatic environment, the subsidence remains in the sediments. Disintegrating: water is insoluble, remaining in a stable state in the surrounding environment, and will be exfoliated after long-term exposure to sunlight. It is not expected to decompose through biochemical processes at present.

Ecology toxic: ND

Part XIII: Abandoning Disposal

Waste disposal: waste shall not be arbitrarily dumped, especially in the ground, sewage and water sources. It shall be handled in accordance with the relevant laws and regulations of the locality.

Recycling: unused and uncontaminated products may be recycled and reused by licensed recyclers.

Part XIV: Transfer Data

International shipping regulations:

- 1. Avoid dampness or rough handling, and the packing should not be damaged
- 2. If the package is damaged, the rubber particles will fall, and it is easy to slip or fall, please clean up as soon as possible

Transportation mode: this product is suitable for sea and air transportation in

inland transportation.

Part XV: Law Data

Applicable regulations:

Occupational safety and health act

Road traffic safety regulations

Waste disposal method

Resource recovery and reuse method

And local laws and regulations.

Part XVI: Others

Reference: ND

Establishing person: Technical group of plastic department, Taiwan chemical fiber

co., LTD

Phone: +886 5 3772111 - 6 36 Establishing Date: 2018-11-23

Other mixed colors-MSDS

1. Product Identification

Product Name: other mixed colors

SUPPLIER: RAINBOW PLASTIC COLOURS LTD.

FU MIN INDUTRIAL ZONE ,FENG GANG TOWN,DONG GUAN CITY.

EMERGENCY CONTACTS: (0769) 87777113 87779115

2. Composition/Information on Ingredients

Product Name: other mixed colors

Component content (%)

CAS.NO.

SOLVENT YELLOW 114 >30%

75216-45-4

Solvent Red 146

70956-30-8

C.I. SOLVENT BLUE 35 >30

17354-14-2

Others

≤10%

>30%

3. Physical & Chemical Properties

Appearance: Powder

Odor: No Obvious Odor

4. Hazards Identification

4.1 Classification according to GHS

This substance is classified as not hazardous.

4.2 Labelling (GHS)

Hazard statements: not applicable

Safety precautions: not applicable

4.3 Other hazards

No risks worthy of mention.

5. First Aid Measures

Eyes: In case contact with eyes, rinse immediately with plenty of water, seek medical

advice.

Skin: Take off immediately all contaminated clothing. After contact with skin,

immediately with plenty of soap and water.

Ingestion: Do not induce vomiting. Wash mouth with water. Seek medical advice. Inhalation: If discomfort is felt after inhalation of dust, remove affected person to fresh air

summon medical aid.

6. Fire Fighting Measures

Extinguishing Media: Water, Dry Power, Carbon Dioxide or Foam.

Explosion Hazard: In case of fire, do not breathe the fumes evolved.

Protective Equipment: Self-contained breathing apparatus should be worn.

7. Accidental Release Measures

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves Sweep up, place in a bag and hold for waste disposal, avoid raising dust Ventilate area and wash spill site after material pickup is complete.

8. Handing & Storage

Handing: Wear suitable protective clothing, glove, eye/face protection and respiratory

protective equipment. Avoid contact with skin and eyes. Possibly install local

exhaust ventilation. Do not eat ,smoke or drink whilst handling this product.

Storage: Keep container tightly closed and stored in a cool, well ventilated place. Do

not

allow to come into contact with oxidizing agent.

Exposure Controls/Personal Protection

Chemical safety goggles: Compatible chemical-resistant gloves

Niosh/msha-approved respirator: Safety shower and eye bath

Mechanical exhaust required: Do not breathe dust

Avoid contact with eyes, skin and clothing: Wash thoroughly after handing

Irritant: Keep tightly closed store in a cool dry place.

10. Stability and Reactivity

Stability: Stable

Incompatibility: Alkali Materials

Decomposition Product: Toxic Fumes of Carbon Monoxide. Carbon Dioxide.

Nitrogen

Oxides, Hydrogen Chloride Gas and Water.

11. Toxicological Information

Acute effects may be harmful by inhalation, ingestion, or skin absorption.

Cause eye and skin irritation

Material irritating to mucous membranes and upper respiratory tract To the best of our knowledge, the chemical, physical, and toxicological properties

have not

been thoroughly investigated.

12. Ecological Information

Data not yet available.

13. Disposal Consideration

Dissolve or mix the material with a combustible solvent and bum in a chemical incinerator

equipped with an after burner and scrubber.

Observe all federal: state and local environmental regulations.

14. Transport Information

Non-hazardous for air, sea and road freight.

15. Regulatory Information

Hazard Information: Not classified as hazardous to users.

Safety information: Avoid contact with skin and eyes. Do not breathe dust.

Wear suitable protective clothing, gloves and eye/face protection.

Other regulatory: The information contained herein does not information

constitute

the user,s

own assessment of work place risk as required by other health & safety legislation.

16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used

only as a guide.

2019 Updated Edition(GHS Compliance).

SOLVENT YELLOW 114-MSDS

1. Product Identification

Product Name: SOLVENT YELLOW 114

SUPPLIER: RAINBOW PLASTIC COLOURS LTD.

FU MIN INDUTRIAL ZONE ,FENG GANG TOWN,DONG GUAN CITY.

EMERGENCY CONTACTS: (0769) 87777113 87779115

2. Composition/Information on Ingredients

Product Name: SOLVENT YELLOW 114

(CAS No.): SOLVENT YELLOW 114 (C.I.)

Component

content (%)

CAS.NO.

SOLVENT YELLOW 114 > 98%

75216-45-4

Others

≤2%

3. Physical & Chemical Properties

Appearance: Red Powder Odor: No Obvious Odor

4. Hazards Identification

4.1 Classification according to GHS

This substance is classified as not hazardous.

4.2 Labelling (GHS)

Hazard statements: not applicable

Safety precautions: not applicable

4.3 Other hazards

No risks worthy of mention.

5. First Aid Measures

Eyes: In case contact with eyes, rinse immediately with plenty of water, seek medical

advice.

Skin: Take off immediately all contaminated clothing. After contact with skin, wash

immediately with plenty of soap and water.

Ingestion: Do not induce vomiting. Wash mouth with water. Seek medical advice. Inhalation: If discomfort is felt after inhalation of dust, remove affected person to fresh air

summon medical aid.

6. Fire Fighting Measures

Extinguishing Media: Water, Dry Power, Carbon Dioxide or Foam.

Explosion Hazard: In case of fire, do not breathe the fumes evolved.

Protective Equipment: Self-contained breathing apparatus should be worn.

7. Accidental Release Measures

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves Sweep up, place in a bag and hold for waste disposal, avoid raising dust Ventilate area and wash spill site after material pickup is complete.

8. Handing & Storage

Handing: Wear suitable protective clothing, glove, eye/face protection and respiratory

protective equipment. Avoid contact with skin and eyes. Possibly install

exhaust ventilation. Do not eat ,smoke or drink whilst handling this product.

Storage: Keep container tightly closed and stored in a cool, well ventilated place. Do

not

allow to come into contact with oxidizing agent.

9. Exposure Controls/Personal Protection

Chemical safety goggles: Compatible chemical-resistant gloves

Niosh/msha-approved respirator: Safety shower and eye bath

Mechanical exhaust required: Do not breathe dust

Avoid contact with eyes, skin and clothing: Wash thoroughly after handing

Irritant: Keep tightly closed store in a cool dry place.

10. Stability and Reactivity

Stability: Stable

Incompatibility: Alkali Materials

Decomposition Product: Toxic Fumes of Carbon Monoxide. Carbon Dioxide.

Nitrogen

Oxides, Hydrogen Chloride Gas and Water.

11. Toxicological Information

Acute effects may be harmful by inhalation, ingestion, or skin absorption.

Cause eye and skin irritation

Material irritating to mucous membranes and upper respiratory tract To the best of our knowledge, the chemical, physical, and toxicological properties

have not

been thoroughly investigated.

12. Ecological Information

Data not yet available.

13. Disposal Consideration

Dissolve or mix the material with a combustible solvent and bum in a chemical incinerator

equipped with an after burner and scrubber.

Observe all federal: state and local environmental regulations.

14. Transport Information

Non-hazardous for air, sea and road freight.

15. Regulatory Information

Hazard Information: Not classified as hazardous to users.

Safety information: Avoid contact with skin and eyes. Do not breathe dust.

Wear suitable protective clothing, gloves and eye/face protection.

Other regulatory: The information contained herein does not information

constitute

the user,s

own assessment of work place risk as required by other health & safety legislation.

16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

2019 Updated Edition(GHS Compliance).

2019.01.05

1. Identification of the substnance/prepalation and company

Chemical description PERINONE

SUPPLIER: RAINBOW PLASTIC COLOURS LTD. FU MIN INDUTRIAL ZONE ,FENG GANG TOWN,DONG GUANCITY. EMERGENCY CONTACTS: (0769) 87777113 87779115

2. Composition/information on ingredients

Information on ingredients % Cas-No. Symbol R-phrases

C.I.SOLVENT BLUE 35 100

17354-14-2

3. Hazards identification

ACCORDING TO THE PRESENT KNOWLEDGE OF THIS PRODUCT THERE IS NO KNOWNDANGER TO HUMANS IF THIS PRODUCT IS HANDLED IN THE CORRECT MANNER

4. First-aid measures

If inhaled REMOVE TO FRESH AIR

If skin contact IMMEDIATELY WASH SKIN WITH SOAP &

PLENTY OF WATER. SEEK MEDICAL

ATTENTION IF IRRITATION DEVELOPS OR

PERSISTS.

If eye contact

FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.GET MEDICAL ASSISTANCE.

If eaten

FLUSH MOUTH WITH WATER.SEEK MEDICAL

ADVICE.

Advice to doctors TREAT SYMPTOMATICALLY

5. Fire-fighting measures

Fire extinguishing agents

CARBON DIOXIDE, FOAM, WATER

SPRAY

Fire/exploson hazards

NONE

Main combustion gas

CARBON, AND NITROGEN OXIDES

Personal protection

SELLF CONTAINED BREATHING

APPARATUS

6. Accidental release measures

Personal protection

GLOVES, RESPIRATORY PROTECTION

Environmental preeautions DO NOT ALLOW TO CONTAMINATE

WATER COURSES

Spillage procedure

VACUUM OR SWEEP UP INTO

CONTAINERS MARKED

FOR

DISPOSAL AS CHEMICAL WASTE

Additional information

DYESTUFFS CAN STAIN HEAVILY

7. Handling and storage

Occupational

hygiene

AVOID

INGESTION,INHALATION,SKIN,SKIN AND
EYE CONTACT.HANDLE IN ACCORDANCE
WITH GOOD INDUSTRIAL HYGIENE
PRACTICE AND ANY LEGAL

REQUIREMENTS

Storage facilities STORE IN A COOL DRY AREA WITH

ADEQUATE VENTILATION

Segregation NO SPECIAL PRECAUTIONS

Storage conditions IN COMMON WITH MANY OR GANIC
COMPOUNDS IN POWDER FROM IT CAN
PRODUCE FLAMMABLE DUST CLOUDSIN
AIR.WHIL ST THIS PRODUCT HAS BEEN
TREATED TO MINIMISE SUCH RISK,TAKE
PRECAUTIONARY MEASURES AGAINST
STATIC DISCHARGES.KEEP CONTAINERS
CLOSED.

8. Exposure controls/psrsonal protection

Components with THE FOLLOWING EXPOSURE LIMITS

ARE TAKEN FROM THE HEALTH AND

SAFETY EXECUTIVES GUIDENCE

NOTE EH40 OCCUPATIONAL
EXPOSURE LIMITS 1993: TOTAL
INHALABLE DUST:10MGM-3(8HR TWA
REF PERIOD)

Personal protection

GLOVES, RESPIRATORY

PROTECTION, GOGGLES

9. Physical and chemical properties

Appearance Form Powder

Colour RED

Odour NONE

Melting point °C

Boiling point NONE °C

Flash point NOT AVAILABLE °C

Thermal decomposition NONE °C

Ignition temperature NONE °C

Auto-ignition NONE °C

Oxidisation properties NONE

Explosive limits Lower Upper

Vapour pressure mbar at ℃

Density

1.74

g/ml

Solubility in water

INSOLUBLE g/lat 90°C

g/lat

°C

PH 6-8

10. Stability and reactivity

Conditions to avoid

HEAT OR OPEN FLAMS

Materials to avoid STRONG OXIDIZING AGENTS. PROTECT

FROM MOISTURE. CO, CO2, OXIDES OF

NITROGEN & CHLORINE

Additional information SEE SECTION 7. STORAGE CONDITIONS

11. Toxicological information

THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN INVESTIGATED. EXERCISE PRECAUTIONS TO MINIMIZE DIRECT CONTACT WITH SKIN OR EYES AND PREVENT INHALATION.

12. Ecological information

Summary

DYES OF THIS TYPE ARE NOT

READIL Y BIODEGRADABLE

Release to the environment

DO NOT ALLOW TO CONTAMINATE

WATER COURSES OR SOILS

Environmental fate

THIS PRODUCT IS NOT SOLUBLE

IN WATERECOTOXICOLOCICAL

DATA

Bacterial toxicity

(IC50) >300mg/1 SLUDGE

ORGANISMS

Fish toxicity

(LCO) <100mg/1 SPECIES TROUT

(LC50)>100mg/1 TEST TIME 48H

Summary

HARMFUL TO AQUATIC ORGANISMS IF RUN

DIRECTLY INTO SURFACE

WATER

Behaviour in treatment NO INHIBITORY EFFECTS ANTICIPATED

Plants

ECOLOCY DATA

Tested material ANALOGOUS PRODUCT

13. Disposal considerations

Produet

INCINERATION, LANDFILL, OBSERVE LOCAL

REGULATIONS

Contaminated packaging CONTAMINATED, EMPTY CONTAINERS MUST BE

DISPOSED OF AS CHEMICAL WASTE

14. Transport information

Other information Not classified as dangerous for

carriage(Regulations 1999)

15. Regulatory information

Symbol and classification Not classified as hazardous product (Chip Regulations)

16. Other information

INTENDED USE: TEXTILE DYESTUFF

ONLY TRAINED AND COMPETENT OPERATIVES SHOULD BE ALLOWED TO DISPENSE AND USE DYESTUFFS AND CHEMICAL SUBSTANCES

This product should be stored, handled and used in accordance with good industrial practices and in conformity with legal regulations.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

MATERIAL SAFETY DATA SHEET

1. Product Identification

Product Name: Solvent Red 146

CAS No.: 70956-30-8

SUPPLIER: RAINBOW PLASTIC COLOURS LTD.

FU MIN INDUTRIAL ZONE ,FENG GANG TOWN,DONG GUAN CITY.

EMERGENCY CONTACTS: (0769) 87777113 87779115

2. Composition/Information on Ingredients

Molecular formula: C₂₀H₁₃NO₄ MolecularWeight: 331.32 Melting Point: 184°C

3. Physical & Chemical Properties

Appearance: Red Powder Odor: No Obvious Odor

4. Hazards Identification

4.1 Classification according to GHS

This substance is classified as not hazardous.

4.2 Labelling (GHS)

Hazard statements: not applicable Safety precautions: not applicable

4.3 Other hazards

No risks worthy of mention.

5. First Aid Measures

Eyes: In case contact with eyes, rinse immediately with plenty of water, seek medical advice.

Skin: Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of soap and water.

Ingestion: Do not induce vomiting. Wash mouth with water. Seek medical advice. Inhalation: If discomfort is felt after inhalation of dust, remove affected person to fresh air

summon medical aid.

6. Fire Fighting Measures

Extinguishing Media: Water, Dry Power, Carbon Dioxide or Foam.

Explosion Hazard: In case of fire, do not breathe the fumes evolved.

Protective Equipment: Self-contained breathing apparatus should be worn.

7. Accidental Release Measures

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves Sweep up, place in a bag and hold for waste disposal, avoid raising dust Ventilate area and wash spill site after material pickup is complete

8. Handing & Storage

Handing:Wear suitable protective clothing, glove, eye/face protection and respiratory protective equipment. Avoid contact with skin and eyes. Possibly install local exhaust ventilation. Do not eat ,smoke or drink whilst handling this product.

Storage: Keep container tightly closed and stored in a cool, well ventilated place. Do not

allow to come into contact with oxidizing agent.

9. Exposure Controls/Personal Protection

Chemical safety goggles: Compatible chemical-resistant gloves Niosh/msha-approved respirator: Safety shower and eye bath

Mechanical exhaust required: Do not breathe dust

Avoid contact with eyes, skin and clothing: Wash thoroughly after handing

Irritant: Keep tightly closed store in a cool dry place

10. Stability and Reactivity

Stability: Stable

Incompatibility: Alkali Materials

Decomposition Product: Toxic Fumes of Carbon Monoxide. Carbon Dioxide.

Nitrogen

Oxides, Hydrogen Chloride Gas and Water

11. Toxicological Information

Acute effects may be harmful by inhalation, ingestion, or skin absorption.

Cause eye and skin irritation

Material irritating to mucous membranes and upper respiratory tract

To the best of our knowledge, the chemical, physical, and toxicological properties

have not

been thoroughly investigated.

12. Ecological Information

Data not yet available

13. Disposal Consideration

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equipped with an after burner and scrubber.

Observe all federal: state and local environmental regulations.

14. Transport Information

Non-hazardous for air, sea and road freight.

15. Regulatory Information

Hazard Information: Not classified as hazardous to users.

Safety information: Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing, gloves and eye/face protection. Other regulatory: The information contained herein does not information constitute the user,s own assessment of work place risk as required by other health & safety legislation.

16. Other Information

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