

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.10.2023

Version number 1.00

Revision: 25.10.2023

1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** Ralston Colorant AQ 850 Phthalic Blue**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture

Restricted to professional users.

Dyestuff/Colouring agent

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

Ralston Colour & Coatings B.V.

part of

Royal Van Wijhe Verf

Russenweg 14

8041 AL ZWOLLE

THE NETHERLANDS

+31(0)38 - 429 1100

msds@ralstoncolour.com

1.4 Emergency telephone number:

NVIC

+31(0)88 755 8000

Only for the purpose of informing medical personnel in case of acute intoxications

2 Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word Warning**Hazard-determining components of labelling:**

2-methyl-2H-isothiazol-3-one

1,2-benzisothiazol-3(2H)-one

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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P362+P364 Take off contaminated clothing and wash it before reuse.

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

Additional information:













Restricted to professional users.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Mixtures

| Dangerous components: | | |
|---|--|-----------------|
| CAS: 147-14-8 EINECS: 205-685-1 | Phthalocyanine Blue Nanoform: set including partially crystalline nanoforms, 20-30% amorphous Number-based particle size distribution - d10: 14 nm - d50: 20 nm - d90: 29 nm non-surface-treated nanoforms Shape: Spheroidal Crystallinity: crystalline nanoform Aspect ratio: 1,1:1 - 3:1 Surface-to-volume ratio: 30,030 m ² / cm ³ [calculated] | >25–≤50% |
| CAS: 55406-53-6 EINECS: 259-627-5 Index number: 616-212-00-7 Reg.nr.: 01-2120762115-60 | 3-Iodo-2-propynylbutylcarbamate  Acute Tox. 3, H331;  STOT RE 1, H372;  Eye Dam. 1, H318;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1);  Acute Tox. 4, H302; Skin Sens. 1, H317 | ≥0.025–<0.1% |
| CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60 | 1,2-benzisothiazol-3(2H)-one  Eye Dam. 1, H318;  Aquatic Acute 1, H400; Aquatic Chronic 2, H411;  Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥0.05 % | <0.05% |
| CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9 Reg.nr.: 01-2120764690-50 | 2-methyl-2H-isothiazol-3-one  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330;  Skin Corr. 1B, H314; Eye Dam. 1, H318;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1);  Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥0.0015 % | ≥0.0015–<0.025% |

Additional information: For the wording of the listed hazard phrases refer to section 16.

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4 First aid measures

4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.

Keep warm, position comfortably and cover well.

Consult doctor if symptoms persist.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing:

If person is conscious, rinse out mouth.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

For non-emergency personnel Keep people at a distance and stay on the windward side.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Wash hands thoroughly after handling.

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

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Observe instructions for use / storage.

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

147-14-8 Phthalocyanine Blue

| | | |
|------------|--------------------------|--|
| Oral | DNEL Systemic; Long term | 45 mg/kg bw/24h (Consumers) |
| Dermal | DNEL Systemic; Long term | 225 mg/kg bw/24h (Consumers) 450 mg/kg bw/24h (Workers) |
| Inhalative | DNEL Systemic; Long term | 4 mg/m ³ (Workers) |

PNECs

147-14-8 Phthalocyanine Blue

| | |
|------|--|
| PNEC | 10 mg/kg (Sediment (fresh water)) 1 mg/kg (Sediment (marine water)) 1 mg/kg (Soil) |
|------|--|

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

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Hand protection



Protective gloves

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Eye/face protection Goggles recommended during refilling

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

| | |
|---|--|
| Physical state | Fluid |
| Colour: | Blue |
| Odour: | Product specific |
| Odour threshold: | Not determined. |
| Melting point/freezing point: | Undetermined. |
| Boiling point or initial boiling point and boiling range | 100 °C (7732-18-5 water, distilled, conductivity or of similar purity) |
| Flammability | Not applicable. |
| Lower and upper explosion limit | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Flash point: | Not applicable. |
| Decomposition temperature: | Not determined. |
| pH | Not determined. |
| Viscosity: | |
| Kinematic viscosity | Not determined. |
| Dynamic at 20 °C: | 1,141.3–1,897.64 mPas |
| Solubility | |
| water: | Fully miscible. |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure at 20 °C: | 23 hPa (7732-18-5 water, distilled, conductivity or of similar purity) |
| Density and/or relative density | |
| Density at 20 °C: | 1.13–1.19 g/cm ³ |
| Relative density | Not determined. |

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Vapour density

Not determined.

Particle characteristics

147-14-8 Phthalocyanine Blue:

set including partially crystalline nanoforms, 20-30% amorphous

Number-based particle size distribution

- d10: 14 nm

- d50: 20 nm

- d90: 29 nm

non-surface-treated nanoforms

Shape: Spheroidal

Crystallinity: crystalline nanoform

Aspect ratio: 1,1:1 - 3:1

Surface-to-volume ratio: 30,030 m²/ cm³ [calculated]

9.2 Other information

Appearance:

Form:

Pasty

Important information on protection of health and environment, and on safety.

Ignition temperature:

Product is not selfigniting.

Explosive properties:

Product does not present an explosion hazard.

Solvent content:

VOC (EC)

16.02 %

Solids content:

37.6 %

Change in condition

Evaporation rate

Not determined.

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability The product is stable.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

147-14-8 Phthalocyanine Blue

| | | |
|--------|------|--------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |

55406-53-6 3-Iodo-2-propynylbutylcarbamate

| | | |
|------|------|-------------------|
| Oral | LD50 | 1,470 mg/kg (rat) |
|------|------|-------------------|

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| | | |
|------------|----------|--------------------|
| Dermal | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50/4 h | >6.89 mg/l (rat) |

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

| |
|--|
| Endocrine disrupting properties |
| None of the ingredients is listed. |

12 Ecological information

12.1 Toxicity

| | |
|---|--|
| Aquatic toxicity: | |
| 147-14-8 Phthalocyanine Blue | |
| EC50 | >100 mg/l /48h (daphnia) |
| | >100 mg/l (Pseudomonas putida) |
| LC50 | >100 mg/l /96h (Leuciscus idus) |
| NOEC | >1 mg/l /21d (daphnia) |
| 2634-33-5 1,2-benzisothiazol-3(2H)-one | |
| EC50 | 2.9 mg/l /48h (daphnia) |
| ErC50 | 0.11 mg/l /72h (Pseudokirchneriella subcapitata) |
| LC50 | 2.15 mg/l /96h (Oncorhynchus mykiss) |
| NOEC | 0.0403 mg/l /72h (Pseudokirchneriella subcapitata) |

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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13 Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

14.1 UN number or ID number

ADR, IMDG, IATA Not regulated.

14.2 UN proper shipping name

ADR, IMDG, IATA Not regulated.

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class Not regulated.

14.4 Packing group

ADR, IMDG, IATA Not regulated.

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to

IMO instruments Not applicable.

UN "Model Regulation": Not regulated.

15 Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

| | |
|--------------------|--|
| Skin sensitisation | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |
|--------------------|--|

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 2: Acute toxicity – Category 2
 Acute Tox. 3: Acute toxicity – Category 3
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1

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Skin Sens. 1A: Skin sensitisation – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2