

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.10.2023

Version number 1.00

Revision: 04.05.2023

1 Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** Ralston Colorant ALK 25 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**

Flam. Liq. 3 H226 Flammable liquid and vapour.

STOT SE 3 H336 May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

GHS02 GHS07 GHS08

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

n-butyl acetate

butanol

Hazard statements

H226 Flammable liquid and vapour.

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H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

P241 Use explosion-proof equipment.

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

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH208 Contains p-(1,1-dimethylpropyl)phenol. May produce an allergic reaction.

Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.








Determination of endocrine-disrupting properties

| | | |
|---------|------------------------------|------------|
| 80-46-6 | p-(1,1-dimethylpropyl)phenol | List I; II |
|---------|------------------------------|------------|

3 Composition/information on ingredients

3.2 Mixtures

Dangerous components:

| | | |
|---|---|-----------|
| EC number: 919-857-5 Reg.nr.: 01-2119463258-33 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  STOT SE 3, H336, EUH066 | >10–≤25% |
| CAS: 147-14-8 EINECS: 205-685-1 | Phthalocyanine Blue Nanoform: Number-based particle size distribution - d10: 10-50 nm - d50: 10-100 nm - d90: 20-150 nm non-surface-treated nanoforms Shape: Elongated Crystallinity: crystalline nanoform Aspect ratio: (x) = 1-3 [TEM] Surface-to-volume ratio: 30-94 m²/m³ [BET] | >10–≤25% |
| EC number: 919-446-0 Reg.nr.: 01-2119458049-33 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  Flam. Liq. 3, H226;  STOT RE 1, H372; Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H336, EUH066 | >2.5–<10% |

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| | | |
|--|---|-----------|
| CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29 | n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066 | ≥0–≤10% |
| CAS: 78-92-2 EINECS: 201-158-5 Index number: 603-127-00-5 Reg.nr.: 01-2119475146-36 | butanol Flam. Liq. 3, H226; Eye Irrit. 2, H319; STOT SE 3, H335-H336 Note: C | ≥0–≤2.5% |
| CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29 | 2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 | ≥0–≤2.5% |
| CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32 | xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Note: C | ≥0–≤2.5% |
| CAS: 80-46-6 EINECS: 201-280-9 Reg.nr.: 01-2119971070-46 | p-(1,1-dimethylpropyl)phenol Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 1, H410; Skin Sens. 1, H317 | ≥0.25–<1% |
| SVHC | | |
| 80-46-6 | p-(1,1-dimethylpropyl)phenol | |

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

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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

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.

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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:

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

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment:

Mouth respiratory protective device.

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

Wear protective equipment. Keep unprotected persons away.

Mount respiratory protective device.

6.2 Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

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.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Wash hands thoroughly after handling.

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

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Observe instructions for use / storage.

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Requirements to be met by storerooms and receptacles: Protect from heat and direct sunlight.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions:

Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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:

123-86-4 n-butyl acetate

| | |
|-------------------|--|
| IOELV (EU) | Short-term value: 723 mg/m ³ , 150 ppm Long-term value: 241 mg/m ³ , 50 ppm |
| WGW (Netherlands) | Short-term value: 723 mg/m ³ , 150 ppm Long-term value: 241 mg/m ³ , 50 ppm |

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|-------------------|--|
| IOELV (EU) | Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin |
| WGW (Netherlands) | Long-term value: 550 mg/m ³ , 100 ppm |

1330-20-7 xylene

| | |
|-------------------|---|
| IOELV (EU) | Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin |
| WGW (Netherlands) | Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 210 mg/m ³ , 47.5 ppm technisch mengsel |

DNELs

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

| | | |
|------------|--------------------------|--|
| Oral | DNEL Systemic; Long term | 125 mg/kg bw/24h (Consumers) |
| Dermal | DNEL Systemic; Long term | 125 mg/kg bw/24h (Consumers) 208 mg/kg bw/24h (Workers) |
| Inhalative | DNEL Systemic; Long term | 185 mg/m ³ (Consumers) 871 mg/m ³ (Workers) |

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) |

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| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | |
|---|--|--|
| Oral | DNEL Systemic; Long term | 26 mg/kg bw/24h (Consumers) |
| Dermal | DNEL Systemic; Long term | 26 mg/kg bw/24h (Consumers) 44 mg/kg bw/24h (Workers) |
| Inhalative | DNEL Systemic; Long term | 71 mg/m³ (Consumers) 330 mg/m³ (Workers) |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Oral | DNEL Systemic; Long term | 36 mg/kg bw/24h (Consumers) |
| Dermal | DNEL Systemic; Long term | 320 mg/kg bw/24h (Consumers) 796 mg/kg bw/24h (Workers) |
| Inhalative | DNEL Systemic; Long term | 33 mg/m³ (Consumers) 275 mg/m³ (Workers) |
| | DNEL Local; Long term | 33 mg/m³ (Consumers) |
| | DNEL Local; Acute | 550 mg/m³ (Workers) |
| PNECs | | |
| 147-14-8 Phthalocyanine Blue | | |
| PNEC | 10 mg/kg (Sediment (fresh water)) 1 mg/kg (Sediment (marine water)) 1 mg/kg (Soil) | |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| PNEC | 0.635 mg/l (Fresh water) 6.35 mg/l (Intermittent releases (fresh water)) 0.0635 mg/l (Marine water) 100 mg/l (Sewage treatment plant) | |
| PNEC | 3.29 mg/kg (Sediment (fresh water)) 0.329 mg/kg (Sediment (marine water)) 0.29 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Respiratory protection:

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

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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



Tightly sealed goggles

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

154–193 °C (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)
Flammable.

Flammability

Lower and upper explosion limit

Lower:

Not determined.

Upper:

Not determined.

Flash point:

~38 °C

Auto-ignition temperature:

>200 °C (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))

Decomposition temperature:

Not determined.

pH

Not determined.

Viscosity:

Kinematic viscosity

Not determined.

Dynamic at 20 °C:

1,141.3–1,592.43 mPas

Solubility

water:

Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure at 20 °C:

2 hPa (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

Density and/or relative density

Density at 20 °C:

0.98–1.04 g/cm³

Relative density

Not determined.

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Vapour density

Not determined.

Particle characteristics

147-14-8 Phthalocyanine Blue:

Number-based particle size distribution

- d10: 10-50 nm

- d50: 10-100 nm

- d90: 20-150 nm

non-surface-treated nanoforms

Shape: Elongated

Crystallinity: crystalline nanoform

Aspect ratio: (x) = 1-3 [TEM]

Surface-to-volume ratio: 30-94 m²/m³ [BET]

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 is not explosive. However, formation of explosive air/vapour mixtures are possible.

Solvent content:

VOC (EC)

30.06 %

Solids content:

71.0 %

Change in condition

Evaporation rate

Not determined.

Information with regard to physical hazard classes

Flammable liquids

Flammable liquid and vapour.

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: Oxidising substances.

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:

ATE (Acute Toxicity Estimates)

| | | |
|------------|----------|------------------------|
| Dermal | LD50 | >112,491–210,220 mg/kg |
| Inhalative | LC50/4 h | >619–1,156 mg/l |

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| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | |
|--|----------|-----------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >5,000 mg/l (rat) |
| 147-14-8 Phthalocyanine Blue | | |
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | |
| Oral | LD50 | >15,000 mg/kg (rat) |
| Dermal | LD50 | >3,400 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 13.1 mg/l (rat) |
| 123-86-4 n-butyl acetate | | |
| Oral | LD50 | 13,100 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >21 mg/l (rat) |
| 78-92-2 butanol | | |
| Oral | LD50 | 6,480 mg/kg (rat) |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Oral | LD50 | 8,532 mg/kg (rat) |
| Inhalative | LC50/4 h | 35.7 mg/l (rat) |
| 1330-20-7 xylene | | |
| Oral | LD50 | 4,300 mg/kg (rat) |
| Dermal | LD50 | 2,000 mg/kg (rabbit) |

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

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 May cause drowsiness or dizziness.

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

11.2 Information on other hazards

| Endocrine disrupting properties | | |
|--|------------------------------|------------|
| 80-46-6 | p-(1,1-dimethylpropyl)phenol | List I; II |

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12 Ecological information

12.1 Toxicity

Aquatic toxicity:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

| | |
|-------|--|
| EL0 | 1,000 mg/l /48h (daphnia) |
| EL50 | >1,000 mg/l /72h (Pseudokirchneriella subcapitata) |
| | 1,000 mg/l /48h (daphnia) |
| LL50 | >1,000 mg/l /96h (Oncorhynchus mykiss) |
| NOELR | 100 mg/l /72h (Pseudokirchneriella subcapitata) |

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) |

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

| | |
|-------|--|
| EL50 | 4.6–10 mg/l /72h (Pseudokirchneriella subcapitata) |
| | 10–22 mg/l /48h (daphnia) |
| LL50 | 10–30 mg/l /96h (Oncorhynchus mykiss) |
| LOEC | 0.203 mg/l /21d (daphnia) |
| NOEC | 0.097 mg/l /21d (daphnia) |
| NOELR | 1 mg/l /72h (algae) |

108-65-6 2-methoxy-1-methylethyl acetate

| | |
|------|---|
| EC50 | 1,000 mg/l /96h (Pseudokirchneriella subcapitata) |
| LC50 | 100–180 mg/l /96h (fish) |

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

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Remark: Harmful to fish

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.

Harmful to aquatic organisms

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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.

European waste catalogue

| | |
|------|---|
| HP3 | Flammable |
| HP5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP14 | Ecotoxic |

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

UN1263

14.2 UN proper shipping name

ADR

UN1263 PAINT

IMDG

PAINT

IATA

Paint

14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class

3 Flammable liquids.

Label

3

14.4 Packing group

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code): 30

EMS Number:

F-E, S-E

Stowage Category

A

14.7 Maritime transport in bulk according to

IMO instruments

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

D/E

Remarks:

Exempted according to 2.2.3.1.5 (Viscous liquids)

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IMDG

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 1263 PAINT, 3, III

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.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

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.

National regulations:
Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57

80-46-6 p-(1,1-dimethylpropyl)phenol

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

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful 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.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

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according to 1907/2006/EC, Article 31

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Trade name: Ralston Colorant ALK 25 Phthalic Blue

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- H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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.

| | |
|---|--|
| Flammable liquids | On basis of test data |
| Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard | 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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
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
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration 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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3