

Safety Data Sheet

Revision :22/01/2019

1: Identification of the substance/Preparation and company

1.1 PRODUCT IDENTIFICATION

PRODUCT NAME: *Water color-24 colors*

COLOR : *Chinese White, Lemon Yellow, Yellow Ochre, Orange Yellow, Cadmium Yellow, Gamboge, Vermilion, Crimson, Scarlet, Rose, Magenta, Green Light, Sap Green, Permanent Green, Deep Green, Cobalt Blue, Cerulean Blue, Phthalocyanine Blue, Prussian Blue, Violet, Burnt Sienna, Burnt Umber, Raw Umber, Lamp Black*

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Paint by artist, amateur and students

1.3 COMPANY DETAILS:

NAME: *Tianchang Jiafeng Painting Material Co., Ltd*

ADDRESS: *Shizhuang Village, Zhengji Town, Tianchang City, Anhui Province, China*

TEL: *+86-550-7964322*

FAX: *+86-550-7964422*

CONTACT PERSON: *Chen Feng*

EMAIL ADDRESS: *Chen-feng@jabp.com*

1.4 EMERGENCY TELEPHONE

TEL: *+86-550-7964322*

2. Hazard identification

2.1 CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments. Not classified as a dangerous substance.

2.2 Label element

Hazard pictograms: *Not applicable*

Signal word: *Not applicable*

2.3 Hazard statements: *Not applicable*

2.4 Precautionary statements

Prevention : *ot applicable*

Response : *Not applicable*

Storage: *Not applicable*

Disposa: *Not applicable*

Other hazards: *Not applicable*

3. Composition/information on ingredients

3.1 Substances *Information not relevant.*

3.2 Mixtures.

*Ingredient Name	*CAS Number	EC NO.	*Proportion	
1. Chinese White				
Water	7732-18-5	231-791-2	49.42%	Not Classified
Gum Arabic	9000-01-5	232-519-5	17.92%	Not Classified
Glycerine	56-81-5	200-289-5	2.39%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	15.79%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.78%	Not Classified
Titanium dioxide (P.W.6)	13463-67-7	236-675-5	9.20%	Not Classified

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2.Lemon Yellow				
Water	7732-18-5	231-791-2	51.83%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.85%	Not Classified
Glycerine	56-81-5	200-289-5	2.87%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	14.02%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	5.75%	Not Classified
2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	6358-31-2	228-768-4	7.18%	Not Classified
3.Yellow Ochre				
Water	7732-18-5	231-791-2	42.67%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.20%	Not Classified
Glycerine	56-81-5	200-289-5	2.25%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.16%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	1.22%	Not Classified
Iron hydroxide oxide yellow (P.Y.42)	51274-00-1	257-098-5	17.00%	Not Classified
4.Orange Yellow				
Water	7732-18-5	231-791-2	52.32%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.52%	Not Classified
Glycerine	56-81-5	200-289-5	2.22%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	8.62%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	8.25%	Not Classified
2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	2512-29-0	219-730-8	8.57%	Not Classified
4,4'-[(3,3'-dichloro{1,1'-biphenyl}-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one](P.O.13)	3520-72-7	222-530-3	1.00%	Not Classified
5.Cadmium Yellow				
Water	7732-18-5	231-791-2	49.90%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.10%	Not Classified
Glycerine	56-81-5	200-289-5	2.20%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	17.54%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	5.40%	Not Classified

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2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	2512-29-0	219-730-8	1.50%	Not Classified
2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	6358-31-2	228-768-4	4.86%	Not Classified
6.Gamboge				
Water	7732-18-5	231-791-2	53.55%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.00%	Not Classified
Glycerine	56-81-5	200-289-5	2.15%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.00%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.30%	Not Classified
2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	6358-31-2	228-768-4	0.70%	Not Classified
2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxobutyramide (P.Y.83)	5567-15-7	226-939-8	2.80%	Not Classified
7.Vermilion				
Water	7732-18-5	231-791-2	42.93%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.92%	Not Classified
Glycerine	56-81-5	200-289-5	3.15%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	19.00%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	8.36%	Not Classified
4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide(P.R.2)	6041-94-7	227-930-1	2.28%	Not Classified
2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	6358-31-2	228-768-4	4.86%	Not Classified
8.Crimson				
Water	7732-18-5	231-791-2	53.99%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.40%	Not Classified
Glycerine	56-81-5	200-289-5	2.30%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	17.60%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.50%	Not Classified
4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide(P.R.2)	6041-94-7	227-930-1	1.55%	Not Classified
Calcium 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate(P.R.63:1)	6417-83-0	229-142-3	1.16%	Not Classified
9.Scarlet				
Water	7732-18-5	231-791-2	50.62%	Not Classified

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Gum arabic	9000-01-5	232-519-5	18.30%	Not Classified
Glycerine	56-81-5	200-289-5	2.18%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.81%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.21%	Not Classified
4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide(P.R.2)	6041-94-7	227-930-1	5.38%	Not Classified
10.Rose				
Water	7732-18-5	231-791-2	54.19%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.00%	Not Classified
Glycerine	56-81-5	200-289-5	2.24%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.63%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.36%	Not Classified
Calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate (P.R.57:1)	5281-04-9	226-109-5	1.04%	Not Classified
5,12-dihydroquino[2,3-b]acridine-7,14-dione.C20H12N2O2(P.V.19)	1047-16-1	213-879-2	1.04%	Not Classified
11.Magenta				
Water	7732-18-5	231-791-2	55.27%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.65%	Not Classified
Glycerine	56-81-5	200-289-5	2.12%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.52%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.74%	Not Classified
5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione(P.R.122)	980-26-7	213-561-3	1.20%	Not Classified
12.Light Green				
Water	7732-18-5	231-791-2	54.92%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.58%	Not Classified
Glycerine	56-81-5	200-289-5	2.15%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	10.00%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.75%	Not Classified
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (P.B.15)	147-14-8	205-685-1	0.40%	Not Classified

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2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	6358-31-2	228-768-4	8.70%	Not Classified
Polychloro copper phthalocyanine(P.G.7)	1328-53-6	215-524-7	1.0.%	Not Classified
13.Sap Green				
Water	7732-18-5	231-791-2	51.90%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.46%	Not Classified
Glycerine	56-81-5	200-289-5	2.13%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	16.60%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	6.25%	Not Classified
2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	2512-29-0	219-730-8	2.08%	Not Classified
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	205-685-1	2.08%	Not Classified
14.Permanent Green				
Water	7732-18-5	231-791-2	50.12%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.50%	Not Classified
Glycerine	56-81-5	200-289-5	2.22%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	16.00%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.33%	Not Classified
2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	2512-29-0	219-730-8	4.82%	Not Classified
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	205-685-1	3.21%	Not Classified
Titanium dioxide (P.W.6)	13463-67-7	236-675-5	0.30%	
15.Deep Green				
Water	7732-18-5	231-791-2	49.12%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.80%	Not Classified
Glycerine	56-81-5	200-289-5	2.45%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	13.33%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	6.00%	Not Classified
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	205-685-1	7.2%	Not Classified
2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	6358-31-2	228-768-4	3.60%	Not Classified
16.Cobalt Blue				
Water	7732-18-5	231-791-2	48.77%	Not Classified

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Gum arabic	9000-01-5	232-519-5	18.20%	Not Classified
Glycerine	56-81-5	200-289-5	2.55%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	19.71%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	3.65%	Not Classified
Titanium dioxide (P.W.6)	13463-67-7	236-675-5	5.63%	Not Classified
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	205-685-1	0.62%	Not Classified
8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo[3,2-b:3',2'-m]triphenodioxazine(P.V.23)	215247-95-3	606-790-9	0.37%	Not Classified
17.Cerulean Blue				
Water	7732-18-5	231-791-2	51.68%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.84%	Not Classified
Glycerine	56-81-5	200-289-5	2.13%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	10.86%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	7.58%	Not Classified
Polychloro copper phthalocyanine(P.G.7)	1328-53-6	215-524-7	0.88%	Not Classified
Titanium dioxide (P.W.6)	13463-67-7	236-675-5	4.71%	Not Classified
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	205-685-1	3.82%	Not Classified
18.Phthalocyanine Blue				
Water	7732-18-5	231-791-2	51.78%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.23%	Not Classified
Glycerine	56-81-5	200-289-5	2.51%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.94%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	3.63%	Not Classified
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	205-685-1	5.41%	Not Classified
19.Prussian Blue				
Water	7732-18-5	231-791-2	48.27%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.33%	Not Classified
Glycerine	56-81-5	200-289-5	2.99%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.23%	Not Classified

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Silicon dioxide	7631-86-9	231-545-4	4.48%	Not Classified
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	205-685-1	4.23%	Not Classified
Iron hydroxide oxide black(P.BK.11)	1317-61-9	215-277-5	3.97%	Not Classified
20. Violet				
Water	7732-18-5	231-791-2	53.24%	Not Classified
Gum arabic	9000-01-5	232-519-5	18.60%	Not Classified
Glycerine	56-81-5	200-289-5	2.14%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.54%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	6.16%	Not Classified
8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo[3,2-b:3',2'-m]triphenodioxazine(P.V.23)	215247-95-3	606-790-9	0.82%	Not Classified
21. Burnt sienna				
Water	7732-18-5	231-791-2	34.52%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.80%	Not Classified
Glycerine	56-81-5	200-289-5	2.81%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.02%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.25%	Not Classified
Iron hydroxide oxide yellow (P.Y.42)	51274-00-1	257-098-5	9.30%	Not Classified
Iron hydroxide oxide red (P.R.101)	1309-37-1	215-168-2	12.80%	Not Classified
22. Burnt Umber				
Water	7732-18-5	231-791-2	37.27%	Not Classified
Gum arabic	9000-01-5	232-519-5	17.52%	Not Classified
Glycerine	56-81-5	200-289-5	2.72%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	17.54%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.77%	Not Classified
Iron hydroxide oxide yellow (P.Y.42)	51274-00-1	257-098-5	4.64%	Not Classified
Iron hydroxide oxide red (P.R.101)	1309-37-1	215-168-2	7.52%	Not Classified
Iron hydroxide oxide black(P.BK.11)	1317-61-9	215-277-5	7.52%	Not Classified
23. Raw Umber				
Water	7732-18-5	231-791-2	48.30%	Not Classified

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Gum arabic	9000-01-5	232-519-5	18.52%	Not Classified
Glycerine	56-81-5	200-289-5	2.81%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	18.02%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	4.21%	Not Classified
Iron hydroxide oxide yellow (P.Y.42)	51274-00-1	257-098-5	5.07%	Not Classified
Iron hydroxide oxide red (P.R.101)	1309-37-1	215-168-2	1.05%	Not Classified
Iron hydroxide oxide black(P.BK.11)	1317-61-9	215-277-5	1.52%	Not Classified

24.Lamp Black

Water	7732-18-5	231-791-2	53.70%	Not Classified
Gum arabic	9000-01-5	232-519-5	22.74%	Not Classified
Glycerine	56-81-5	200-289-5	3.22%	Not Classified
2-phenoxyethanol	122-99-6	204-589-7	0.50%	Acute Tox. 4 H302 Eye Irrit. 2 H319
Calcium carbonate	471-34-1	207-439-9	8.06%	Not Classified
Silicon dioxide	7631-86-9	231-545-4	6.94%	Not Classified
Carbon Black (Pigment Black 7)	1333-86-4	215-609-9	4.84%	Not Classified

Specific concentration limits:

2-phenoxyethanol CAS: 122-99-6 0.50%

According to Regulation (EC) No 1272/2008 and its amendments. Not classified as a dangerous substance.

4. First aid measures

4.1 Description of first aid measures

After skin Contact: Not applicable in general situation. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable..

After eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

After ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

After inhalation: Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

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

Please see section 11

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

1. Treat symptomatically.
2. Symptoms may be delayed

5. Fire fighting Measures

5.1 Suitable Extinguishing Media

Use extinguishing media suitable for surrounding area.

5.2 Specific hazards arising from the

1. Not combustible, not considered a significant fire risk, however containers may burn.

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- substance or mixture**
2. May expansion or decompose explosively when heated or involved in fire.
 3. Development of hazardous combustion gases or vapor possible in the event of fire.
- 5.3 Advice for firefighters**
1. As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
 2. Fight fire from a safe distance, with adequate cover.
 3. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
1. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
 2. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
 3. Use personal protective equipment. Avoid breathing vapours, mist or gas.
- 6.2 Environmental Protection**
1. Prevent further leakage or spillage if safe to do so.
 2. Prevent leakage into the water, sewer, basement or confined space.
- 6.3 Methods and materials for containment and cleaning up**
1. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
 2. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
 3. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. Handling and storage

- 7.1 Precautions for handling**
- Protective measures:**
1. Handling is performed in a well ventilated place.
 2. Avoid contact with eyes.
- Measures to prevent fire:**
1. Keep away from heat/sparks/open flames/ hot surfaces.
- Measures to prevent aerosol and dust generation:**
1. Not applicable.
- 7.2 Conditions for safe storage, including any incompatibilities**
1. Keep containers tightly closed.
 2. Keep containers in a dry, cool and well-ventilated place.
 3. Keep away from heat/sparks/open flames/hot surfaces.
 4. Store away from incompatible materials and foodstuff containers.
- 7.3 Specific end use(s)**
- In addition to use mentioned in the first parts, unforeseen other specific end uses.

8. Control parameters

8.1 Control parameters Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Calcium carbonate 471-34-1	USA - OSHA	--	15	--	--
	Latvia	--	6	--	--
	Ireland	--	10	--	--
	France	--	10	--	--
	Canada -Québec	--	10	--	--
	Australia	--	10	--	--
	USA - OSHA	--	15	--	--
	South Korea	--	10	--	--

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Titanium dioxide (P.W.6) 13463-67-7	Ireland	--	10	--	--
	France	--	11	--	--
	Denmark	--	6	--	12
	Australia	--	10	--	--
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (P.B.15) 147-14-8	Latvia	--	5	--	--
Iron hydroxide oxide red (P.R.101) 1309-37-1	USA - OSHA	--	1	--	--
	South Korea	--	5	--	--
	Ireland	--	1	--	2
	Hungary	--	6	--	--
	Denmark	--	1	--	2
	Australias	--	1	--	--

Biological limit values:

No information available

Monitoring methods:

1. EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2. GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard) .

Derived No effect level(DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (systemic)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Calcium carbonate 471-34-1	Inhalation	No data available	No data available	No data available	10 mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Titanium dioxide (P.W.6) 13463-67-7	Inhalation	No data available	No data available	10 mg/m ³	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2-phenoxyethanol 122-99-6	Inhalation	No data available	No data available	4.2mg/m ³	4.1mg/m ³
	Oral	No data available	No data available	9.23 mg/m ³	No data available
	Dermal	No data available	No data available	No data available	No data available
5,12-dihydroquino[2,3-b]acridine-7,14-dione.C20H12N2O2(P.V.19) 1047-16-1	Inhalation	No data available	No data available	3mg/m ³	147mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (P.B.15) 147-14-8	Inhalation	No data available	No data available	No data available	4mg/m ³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
5,12-dihydro-2,9-	Inhalation	No data	No data	3mg/m ³	147mg/m ³

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dimethylquino[2,3-b]acridine-7,14-dione(P.R.122) 980-26-7		available	available		
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Polychloro copper phthalocyanine(P.G.7) 1328-53-6	Inhalation	No data available	No data available	No data available	4mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Iron hydroxide oxide yellow (P.Y.42) 51274-00-1	Inhalation	No data available	No data available	10mg/m³	10mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
Iron hydroxide oxide red (P.R.101) 1309-37-1	Inhalation	No data available	No data available	10mg/m³	10mg/m³
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Engineering controls

1. Ensure adequate ventilation, especially in confined areas.
2. Ensure that eyewash stations and safety showers are close to the workstation location.
3. Use explosion-proof electrical/ventilating/lighting/equipment.
4. Set up emergency exit and necessary risk-elimination area.

8.3 Personal protection equipment

General requirement: No special requirements, please see the description below

Eye protection: In general situation, eye protection is not needed. In the production process, when contacting with dust, tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand protection: In general situation, hand protection is not needed.

Respiratory protection: In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and body protection: In general situation, skin and body protection are not needed.

9. Physical and chemical properties

Appearance	Paste	Auto flammability	Product is not self igniting.
Color	24 colors	Explosive properties	Product dose not present en xplosion hazard
Odour	No	Oxidizing properties	Not available
PH	6.0-7.0	Vapor pressure	Not available
Boiling point/boiling range	Not available	Relative density	1.30-1.45g/cm ³
Melting point/melting range	Not available	Solubility in water	Yes
Flash point	Not available	Partition coefficient	Not available
Flammability	No	Others	No

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10. Stability and reactivity

- 10.1. Reactivity.** Contact with incompatible substances can cause decomposition or other chemical reactions.
- 10.2. Chemical stability.** Stable under proper operation and storage conditions.
- 10.3. Possibility of hazardous reactions.** In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. Reacts with active metals and poses an explosive potential or fire.
- 10.4. Conditions to avoid** Incompatible materials, heat, flame and spark.
- 10.5. Incompatible materials** Alkali, sodium, calcium, and other active metal, halogen, metal oxide, non-metal oxide, acyl halide and metal phosphide. Active metal, alcohols, aldehydes, carbon disulfide, carbon, sulfur, phosphorus, boron, reducing agents, metallic acetylenes and metallic carbonates.
- 10.6. Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1 Acute toxicity

Component	Cas No.	LD 50 (oral)	LD 50 (dermal)	LC 50 (inhalation,4h)
2-phenoxyethanol	122-99-6	1 840 - 4 070 mg/kg bw (rat)	2 214 mg/kg bw (rabbit) [No information available
Calcium carbonate	471-34-1	6450mg/kg(Rat)	No information available	No information available
5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione(P.R.122)	980-26-7	> 23000mg/kg(Rat)	> 30000mg/kg(Rabbit)	No information available
4,4'-[(3,3'-dichloro{1,1'-biphenyl}-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one](P.O.13)	3520-72-7	> 5000mg/kg(Rat)	No information available	No information available

11.2 Carcinogenicity

ID.	Cas No.	Component	IARC	NTP
1	471-34-1	Calcium carbonate	Not Listed	Not Listed
2	9000-01-5	Gum arabic	Not Listed	Not Listed
3	56-81-5	Glycerine	Not Listed	Not Listed
4	7631-86-9	Silicon dioxide	Not Listed	Not Listed
5	13463-67-7	Titanium dioxide (P.W.6)	Category 2B	Not Listed
6	122-99-6	2-phenoxyethanol	Not Listed	Not Listed
7	7732-18-5	Water	Not Listed	Not Listed
8	51274-00-1	Iron hydroxide oxide yellow (P.Y.42)	Not Listed	Not Listed
9	147-14-8	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	Not Listed	Not Listed
10	1328-53-6	Polychloro copper phthalocyanine(P.G.7)	Not Listed	Not Listed
11	1309-37-1	Iron hydroxide oxide red (P.R.101)	Category 3	Not Listed
12	6041-94-7	4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide(P.R.2)	Not Listed	Not Listed
13	5281-04-9	calcium 3-hydroxy-4-[(4-methyl-2-	Not Listed	Not Listed

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		sulphonatophenyl)azo]-2-naphthoate (P.R.57:1)		
14	6417-83-0	Calcium 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate(P.R.63:1)	Not Listed	Not Listed
15	980-26-7	5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione(P.R.122)	Not Listed	Not Listed
16	1047-16-1	5,12-dihydroquino[2,3-b]acridine-7,14-dione.C20H12N2O2(P.V.19)	Not Listed	Not Listed
17	215247-95-3	8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo[3,2-b:3',2'-m]triphenodioxazine(P.V.23)	Not Listed	Not Listed
18	1317-61-9	Iron hydroxide oxide black(P.BK.11)	Not Listed	Not Listed
19	1333-86-4	Carbon Black (Pigment Black 7)	Not Listed	Not Listed
20	3520-72-7	4,4'-[(3,3'-dichloro{1,1'-biphenyl}-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one](P.O.13)	Not Listed	Not Listed
21	6358-31-2	2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	Not Listed	Not Listed
22	5567-15-7	2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxobutyramide (P.Y.83)	Not Listed	Not Listed
23	2512-29-0	2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	Not Listed	Not Listed

11.3 Others

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

Skin sensitization: Based on available data, the classification criteria are not met

Respiratory sensitization: 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

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

Reproductive toxicity(additional): Based on available data, the classification criteria are not met

12. Ecological information

12.1 Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
2-phenoxyethanol	122-99-6	No information available	No information available	EC50 (72 h) 443 - 625 mg/L

12.2 Chronic aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Glycerine	56-81-5	C50 (4 days) 54 g/L	EC50 (24 h) 10 g/L	No information available
2-phenoxyethanol	122-99-6	LC50 (4 days) 220 - 460 mg/L [2] LC0 (4 days) 220 mg/L [1] LC100 (4 days) 460 mg/L [1] NOEC (4 days) 100 mg/L [1]	No information available	EC50 (48 h) 500 mg/L [1] EC0 (48 h) 500 mg/L [1]

12.3 Persistence and degradability

Component	Cas No.	Persistence	Persistence
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		(water/soil)	(air)
5,12-dihydroquino[2,3-b]acridine-7,14-dione.C20H12N2O2(P.V.19)	1047-16-1	High	High
2-phenoxyethanol	122-99-6	Low	Low
Glycerine	56-81-5	Low	Low
Water	7732-18-5	Low	Low
Titanium dioxide (P.W.6)	13463-67-7	High	High
Iron hydroxide oxide red (P.R.101)	1309-37-1	Low	Low
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	High	High
2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	2512-29-0	High	High

12.4 Bioaccumulative potential

Component	Cas No.	Bioaccumulative potential	comments
5,12-dihydroquino[2,3-b]acridine-7,14-dione.C20H12N2O2(P.V.19)	1047-16-1	Low	Log K OW =-1.37
Iron hydroxide oxide red (P.R.101)	1309-37-1	Low	Log K OW =0.5294
Polychloro copper phthalocyanine(P.G.7)	1328-53-6	Low	BCF=74
Titanium dioxide (P.W.6)	13463-67-7	Low	BCF=10
Water	7732-18-5	Low	Log K OW =-1.38
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	Low	BCF=33
2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	2512-29-0	Medium	Log K OW =-3.9388
4,4'-[(3,3'-dichloro{1,1'-biphenyl}-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one](P.O.13)	3520-72-7	Low	BCF=5.6

12.5 Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
5,12-dihydroquino[2,3-b]acridine-7,14-dione.C20H12N2O2(P.V.19)	1047-16-1	Low	3827
Iron hydroxide oxide red (P.R.101)	1309-37-1	Low	23.74
Titanium dioxide (P.W.6)	13463-67-7	Low	23.74
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	147-14-8	Low	10000000000
2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	2512-29-0	Low	278.5
Water	7732-18-5	Low	14.3

12.6 Results of PBT and vPvB assessment

Cas No.	Component	Results of PBT and vPvB assessment (according to (EC) No 2015/830
471-34-1	Calcium carbonate	not PBT/vPvB
9000-01-5	Gum arabic	not PBT/vPvB
56-81-5	Glycerine	not PBT/vPvB
7631-86-9	Silicon dioxide	not PBT/vPvB
13463-67-7	Titanium dioxide (P.W.6)	not PBT/vPvB
122-99-6	2-phenoxyethanol	not PBT/vPvB
7732-18-5	Water	not PBT/vPvB
51274-00-1	Iron hydroxide oxide yellow (P.Y.42)	not PBT/vPvB
147-14-8	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	not PBT/vPvB
1328-53-6	Polychloro copper phthalocyanine(P.G.7)	not PBT/vPvB
1309-37-1	Iron hydroxide oxide red (P.R.101)	not PBT/vPvB
6041-94-7	4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenyl-naphthalene-2-carboxamide(P.R.2)	not PBT/vPvB

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yellow (P.Y.42)									
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Polychloro copper phthalocyanine(P.G.7)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Iron hydroxide oxide red (P.R.101)	✓	✓	✓	✓	✓	✓	✓	✓	✓
4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide(P.R.2)	✓	✓	✓	✓	✓	✓	✓	✓	✓
calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate (P.R.57:1)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Calcium 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate(P.R.63:1)	✓	✓	✓	✓	✓	✓	✓	✓	✓
5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione(P.R.122)	✓	✓	✓	✓	✓	✓	✓	✓	✓
5,12-dihydroquino[2,3-b]acridine-7,14-dione.C20H12N2O2(P.V.19)	✓	✓	✓	✓	✓	✓	✓	✓	✓
8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo[3,2-b:3',2'-m]triphenodioxazine(P.V.23)	✗	✗	✗	✓	✗	✓	✗	✗	✓
Iron hydroxide oxide black(P.BK.11)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carbon Black (Pigment Black 7)	✓	✓	✓	✓	✓	✓	✓	✓	✓
4,4'-[(3,3'-dichloro{1,1'-biphenyl}-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one](P.O.13)	✓	✓	✓	✓	✓	✓	✓	✓	✓
2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	✓	✓	✓	✓	✓	✓	✓	✓	✓
2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxobutyramide (P.Y.83)	✓	✓	✓	✓	✓	✓	✓	✓	✓
2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	✓	✓	✓	✓	✓	✓	✓	✓	✓

【EINECS】 European Inventory of Existing Commercial Chemical Substances

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- 【TSCA】 United States Toxic Substances Control Act Inventory
- 【DSL】 Canadian Domestic Substances List
- 【IECSC】 China Inventory of Existing Chemical Substances
- 【NZIoC】 New Zealand Inventory of Chemicals
- 【PICCS】 Philippines Inventory of Chemicals and Chemical Substances
- 【KECI】 Existing and Evaluated Chemical Substances
- 【AICS】 Australia Inventory of Chemical Substances
- 【ENCS】 Existing And New Chemical Substances

15.2 European chemical inventory

Component	A	B	C	D	E	F	G
Calcium carbonate	X	X	X	√	√	X	X
Gum arabic	X	X	X	√	√	X	X
Glycerine	X	X	X	√	√	X	X
Silicon dioxide	X	X	X	√	√	√	X
Titanium dioxide (P.W.6)	X	X	X	√	√	√	X
2-phenoxyethanol	X	X	X	√	√	X	X
Water	X	X	X	√	X	X	X
Iron hydroxide oxide yellow (P.Y.42)	X	X	X	√	√	X	X
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(P.B.15)	X	X	X	√	√	X	X
Polychloro copper phthalocyanine(P.G.7)	X	X	X	√	√	X	X
Iron hydroxide oxide red (P.R.101)	X	X	X	√	√	X	X
4-[(2,5-dichlorophenyl)azo]-3-hydroxy-N-phenylnaphthalene-2-carboxamide(P.R.2)	X	X	X	√	√	X	X
calcium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate (P.R.57:1)	X	X	X	√	√	X	X
Calcium 3-hydroxy-4-[(1-sulphonato-2-naphthyl)azo]-2-naphthoate(P.R.63:1)	X	X	X	√	√	X	X
5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione(P.R.122)	X	X	X	√	√	X	X
5,12-dihydroquino[2,3-b]acridine-7,14-dione.C20H12N2O2(P.V.19)	X	X	X	√	√	X	X
8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo[3,2-b:3',2'-m]triphenodioxazine(P.V.23)	X	X	X	√	X	X	X
Iron hydroxide oxide black(P.BK.11)	X	X	X	√	√	X	X
Carbon Black (Pigment Black 7)	X	X	X	√	√	X	X
4,4'-[(3,3'-dichloro{1,1'-biphenyl}-4,4'-diyl)bis(azo)]bis[2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one](P.O.13)	X	X	X	√	√	X	X
2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide (P.Y.74)	X	X	X	√	√	X	X
2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxobutyramide (P.Y.83)	X	X	X	√	√	X	X
2-[(4-Methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutanamide(P.Y.1)	X	X	√	√	√	X	X

- 【A】 Candidate list of Substances of Very High Concern for authorization under EU REACH regulation
- 【B】 Substances requiring authorisation under EU REACH regulation
- 【C】 Substances restricted under EU REACH
- 【D】 Pre-registered substances under EU REACH
- 【E】 Registered substances under EU REACH
- 【F】 Substance Evaluation - CoRAP under EU REACH
- 【G】 List of priority substances under EU water policy (Directive 2455/2001/EC)

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Note

- “ ✓ ” Indicates that the substance included in the regulations
- “ × ” That no data or included in the regulations

16. Other information

16.1 Information on revision

Creation Date 2019-01-22

Revision Date 2019-01-22

Reason for revision:--

16.2 Reference

- [1]IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2]IARC, website: <http://www.iarc.fr/>.
- [3]OECD: The Global Portal to Information on Chemical Substances, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.
- [4]CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5]NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7]U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

16.3 Abbreviations and acronyms

CAS –Chemical Abstracts Service	CMR - Carcinogens, mutagens or substances toxic to reproduction
PC-STEL- Short term exposure limit	PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer
RPE - Respiratory Protective Equipment	PNEC –Predicted No Effect Concentration
LC 50 - Lethal Concentration 50%	LD 50 - Lethal Dose 50%
NOEC -No Observed Effect Concentration	EC 50 - Effective Concentration 50%
PBT - Persistent, Bioaccumulative, Toxic	POW - Partition coefficient Octanol:Water
BCF - Bioconcentration factor (BCF)	vPvB - very Persistent, very Bioaccumulative
IMDG-International Maritime Dangerous Goods	ICAO/IATA-International Civil Aviation Organization/International Air Transportation Association
UN-The United Nations	ACGIH-American Conference of Governmental Industrial Hygienists

16.4 Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation the data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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