

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/30/2018

Reviewed on 09/19/2017

1 Identification

· **Product identifier**

· **Trade name:** Family SDS Koleston Perfect 2018

· **Article number:**

91225620 Koleston Perfect 2018 0/0
 91267006 Koleston Perfect 2018 0/44
 91264817 Koleston Perfect 2018 2/8
 91267913 Koleston Perfect 2018 3/0
 91267003 Koleston Perfect 2018 3/00
 91269117 Koleston Perfect 2018 4/00
 91269124 Koleston Perfect 2018 4/3
 91269056 Koleston Perfect 2018 5/00
 91269048 Koleston Perfect 2018 7/18
 91269049 Koleston Perfect 2018 7/47
 91269051 Koleston Perfect 2018 7/77
 91270388 Koleston Perfect 2018 8/01
 91270386 Koleston Perfect 2018 8/04
 91268933 Koleston Perfect 2018 9/00
 91279787 Koleston Perfect 2018 9/01
 91279790 Koleston Perfect 2018 9/73
 91268935 Koleston Perfect 2018 9/81
 91270389 Koleston Perfect 2018 9/86 (9/6)
 91268934 Koleston Perfect 2018 9/96
 91225607 Koleston Perfect 2018 9/97 (9/79)
 91225619 Koleston Perfect 2018/11
 91269042 Koleston Perfect 2018/28
 91290887 Koleston Perfect 2018/30
 91225617 Koleston Perfect 2018/33
 99210006176 Koleston Perfect 2018/43
 99210002032 Koleston Perfect 2018/65
 91269041 Koleston Perfect 2018/66
 91225618 Koleston Perfect 2018/88
 91225609 Koleston Perfect 2018/10/0
 91279795 Koleston Perfect 2018/10/00
 91279268 Koleston Perfect 2018/10/03
 91099396 Koleston Perfect 2018/10/04
 91279793 Koleston Perfect 2018/10/1
 91358078 Koleston Perfect 2018/10/16
 91279794 Koleston Perfect 2018/10/3
 91392602 Koleston Perfect 2018/10/31
 91268939 Koleston Perfect 2018/10/38
 91225612 Koleston Perfect 2018/10/73
 91225610 Koleston Perfect 2018/10/8
 91225611 Koleston Perfect 2018/10/86 (10/6)
 91279269 Koleston Perfect 2018/10/95
 91268938 Koleston Perfect 2018/10/96
 91225613 Koleston Perfect 2018/10/97
 91288993 Koleston Perfect 2018/12/0
 91295720 Koleston Perfect 2018/12/03
 91253299 Koleston Perfect 2018/2/0
 91225614 Koleston Perfect 2018/33/0
 91267007 Koleston Perfect 2018/33/55
 91269046 Koleston Perfect 2018/33/66
 91269030 Koleston Perfect 2018/4/0
 91226765 Koleston Perfect 2018/4/07
 91278137 Koleston Perfect 2018/4/71
 91225206 Koleston Perfect 2018/4/75
 91269125 Koleston Perfect 2018/4/77
 91269045 Koleston Perfect 2018/44/0
 91264818 Koleston Perfect 2018/44/44
 91261366 Koleston Perfect 2018/44/55

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91267004 Koleston Perfect 201844/65 (4/65)
91280421 Koleston Perfect 201844/66
91253300 Koleston Perfect 20185/0
91269057 Koleston Perfect 20185/07
91226796 Koleston Perfect 20185/1
91282465 Koleston Perfect 20185/18
91271958 Koleston Perfect 20185/2
91288150 Koleston Perfect 20185/3
91282466 Koleston Perfect 20185/37
91288803 Koleston Perfect 20185/41
91282464 Koleston Perfect 20185/43
91226795 Koleston Perfect 20185/5
99210011201 Koleston Perfect 20185/7
91288868 Koleston Perfect 20185/71
91288157 Koleston Perfect 20185/73
91269122 Koleston Perfect 20185/75
91269123 Koleston Perfect 20185/77
91225615 Koleston Perfect 201855/0
91229115 Koleston Perfect 201855/44
91267005 Koleston Perfect 201855/46
91288154 Koleston Perfect 201855/55
91226797 Koleston Perfect 201855/65
91226767 Koleston Perfect 201855/66
91226799 Koleston Perfect 20186/0
91269053 Koleston Perfect 20186/00
91269052 Koleston Perfect 20186/07
91226802 Koleston Perfect 20186/1
91290885 Koleston Perfect 20186/2
91269055 Koleston Perfect 20186/3
91290837 Koleston Perfect 20186/34
91290886 Koleston Perfect 20186/41
91289134 Koleston Perfect 20186/43
91289116 Koleston Perfect 20186/45
91269054 Koleston Perfect 20186/5
91269121 Koleston Perfect 20186/7
91288877 Koleston Perfect 20186/71
91288980 Koleston Perfect 20186/73
91270560 Koleston Perfect 20186/74
91269119 Koleston Perfect 20186/75
91269120 Koleston Perfect 20186/77
91226801 Koleston Perfect 20186/97 (6/79)
91269044 Koleston Perfect 201866/0
91229116 Koleston Perfect 201866/44
91226800 Koleston Perfect 201866/46
91290836 Koleston Perfect 201866/55(6/55)
91288892 Koleston Perfect 201866/56
91226804 Koleston Perfect 20187/0
91287361 Koleston Perfect 20187/00
91328950 Koleston Perfect 20187/01
91269047 Koleston Perfect 20187/03
91269118 Koleston Perfect 20187/07
91229113 Koleston Perfect 20187/1
91328987 Koleston Perfect 20187/17
91260118 Koleston Perfect 20187/2
91280113 Koleston Perfect 20187/3
91392497 Koleston Perfect 20187/31
91328952 Koleston Perfect 20187/34
91328951 Koleston Perfect 20187/37
99210001729 Koleston Perfect 20187/38
91229112 Koleston Perfect 20187/43

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91260119 Koleston Perfect 20187/45
91229111 Koleston Perfect 20187/7
91328795 Koleston Perfect 20187/71
91357983 Koleston Perfect 20187/73
91269050 Koleston Perfect 20187/75
91225533 Koleston Perfect 20187/86 (7/6)
91269043 Koleston Perfect 201877/0
91260120 Koleston Perfect 201877/43
91229114 Koleston Perfect 201877/44
91267008 Koleston Perfect 201877/46
91253307 Koleston Perfect 20188/0
91268778 Koleston Perfect 20188/00
91225601 Koleston Perfect 20188/03
91268920 Koleston Perfect 20188/07
91225600 Koleston Perfect 20188/1
91270383 Koleston Perfect 20188/2
91225603 Koleston Perfect 20188/3
91270384 Koleston Perfect 20188/34
91268932 Koleston Perfect 20188/38
91270385 Koleston Perfect 20188/41
91268000 Koleston Perfect 20188/43
91270387 Koleston Perfect 20188/45
91225602 Koleston Perfect 20188/7
99210001798 Koleston Perfect 20188/71
91270382 Koleston Perfect 20188/73
91297378 Koleston Perfect 20188/74
91128754 Koleston Perfect 20188/96
91225604 Koleston Perfect 20188/97
91279270 Koleston Perfect 201888/0
91261409 Koleston Perfect 201888/43
91253308 Koleston Perfect 20189/0
91268937 Koleston Perfect 20189/03
91279791 Koleston Perfect 20189/04
91225606 Koleston Perfect 20189/1
91279785 Koleston Perfect 20189/16
91279789 Koleston Perfect 20189/17
91225605 Koleston Perfect 20189/3
91392528 Koleston Perfect 20189/31
91268936 Koleston Perfect 20189/38
91225608 Koleston Perfect 20189/56
91279788 Koleston Perfect 20189/7
91279786 Koleston Perfect 20189/8
91225616 Koleston Perfect 201899/0
91270390 Koleston Perfect 201899/44
99210002750 Koleston Perfect 2018 / BKK 12/0 with Buffer
99210002747 Koleston Perfect 2018 / BKK12/03 with Buffer
91295722 Koleston Perfect 201812/07
99210002748 Koleston Perfect 2018 / BKK12/07 with Buffer
91295713 Koleston Perfect 201812/1
99210002736 Koleston Perfect 2018 / BKK12/1 with Buffer
91295716 Koleston Perfect 201812/11
99210002738 Koleston Perfect 2018 / BKK12/11 with Buffer
91295718 Koleston Perfect 201812/16
99210002739 Koleston Perfect 2018 / BKK12/16 with Buffer
91295721 Koleston Perfect 201812/22
99210001587 Koleston Perfect 2018 / BKK12/22 with Buffer
91295719 Koleston Perfect 201812/61
99210002749 Koleston Perfect 2018 / BKK12/61 with Buffer
91295717 Koleston Perfect 201812/81
99210001585 Koleston Perfect 2018 / BKK12/81 with Buffer

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- 91295714 Koleston Perfect 201812/89
 99210002735 Koleston Perfect 2018 / BKK12/89 with Buffer
 91295715 Koleston Perfect 201812/96
 99210002723 Koleston Perfect 2018 / BKK12/96 with Buffer
- **Application of the substance / the mixture** Hair coloring product
 - **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
 Coty Cosmetics, Inc.
 4500 Park Granada
 Calabasas, CA 91302
 USA
 Wella, 14 rue du Quatre Septembre, 75002 Paris
 - **Information department:** Coty SDS Info Team
 - **Emergency telephone number:**
 CHEMTREC Emergency number: +1-703-527-3887
 CHEMTREC US/NA Emergency number(toll free): 800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
 Skin Irrit. 2 H315 Causes skin irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Propylene glycol
 ammonia, anhydrous
 1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidammoniumsulfate
 1,4-Benzenediamine, 2-(methoxymethyl)-
 1-hexyl-1H-pyrazol-4,5 diamine sulfate (2:1)
 N, N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate
 5-amino-o-cresol
 3-methyl-1-phenyl-5-pyrazolone

- **Hazard statements**

Harmful if swallowed.
 Causes skin irritation.

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Causes serious eye damage.

May cause an allergic skin reaction.

- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

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

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

Rinse mouth.

Take off contaminated clothing and wash it before reuse.

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

Wash contaminated clothing before reuse.

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

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 1

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *3

Fire = 1

Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

57-55-6	Propylene glycol	8.0%
66422-95-5	Ethanol, 2-(2,4-diaminophenoxy)-, hydrochloride (1:2)	3.1%
337906-36-2	1,4-Benzenediamine, 2-(methoxymethyl)-	2.53%
7664-41-7	ammonia, anhydrous	2.147%
155601-30-2	1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidammoniumsulfate	1.96%
1361000-03-4	1-hexyl-1H-pyrazol-4,5 diamine sulfate (2:1)	1.573%
54381-16-7	N, N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate	1.25%
123-30-8	4-aminophenol	1.035%
7757-82-6	sodium sulphate	1.0%
108-46-3	resorcinol	1.0%
90-15-3	1-naphthol	1.0%
2835-95-2	5-amino-o-cresol	0.9%
1310-73-2	sodium hydroxide	0.614%

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89-25-8	3-methyl-1-phenyl-5-pyrazolone	0.2%
13463-67-7	titanium dioxide	0.1%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
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 and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.
- **Protective Action Criteria for Chemicals**

- **PAC-I:**

57-55-6	Propylene glycol	30 mg/m ³
7664-41-7	ammonia, anhydrous	30 ppm
7757-82-6	sodium sulphate	9.8 mg/m ³
108-46-3	resorcinol	20 ppm
90-15-3	1-naphthol	2.2 mg/m ³
9005-00-9	Poly(oxy-1,2-ethanediyl), alpha-octadecyl-omega-hydroxy-	5.7 mg/m ³
7783-20-2	ammonium sulphate	13 mg/m ³

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1310-73-2	sodium hydroxide	0.5 mg/m ³
591-27-5	3-aminophenol	3 mg/m ³
7757-83-7	sodium sulphite	11 mg/m ³
89-25-8	3-methyl-1-phenyl-5-pyrazolone	11 mg/m ³
13463-67-7	titanium dioxide	30 mg/m ³
139-33-3	disodium dihydrogenethylenediaminetetraacetate	11 mg/m ³

· PAC-2:

57-55-6	Propylene glycol	1,300 mg/m ³
7664-41-7	ammonia, anhydrous	160 ppm
7757-82-6	sodium sulphate	110 mg/m ³
108-46-3	resorcinol	28 ppm
90-15-3	1-naphthol	25 mg/m ³
9005-00-9	Poly(oxy-1,2-ethanediyl), alpha-octadecyl-omega-hydroxy-	63 mg/m ³
7783-20-2	ammonium sulphate	140 mg/m ³
1310-73-2	sodium hydroxide	5 mg/m ³
591-27-5	3-aminophenol	33 mg/m ³
7757-83-7	sodium sulphite	120 mg/m ³
89-25-8	3-methyl-1-phenyl-5-pyrazolone	120 mg/m ³
13463-67-7	titanium dioxide	330 mg/m ³
139-33-3	disodium dihydrogenethylenediaminetetraacetate	120 mg/m ³

· PAC-3:

57-55-6	Propylene glycol	7,900 mg/m ³
7664-41-7	ammonia, anhydrous	1,100 ppm
7757-82-6	sodium sulphate	650 mg/m ³
108-46-3	resorcinol	170 ppm
90-15-3	1-naphthol	450 mg/m ³
9005-00-9	Poly(oxy-1,2-ethanediyl), alpha-octadecyl-omega-hydroxy-	380 mg/m ³
7783-20-2	ammonium sulphate	840 mg/m ³
1310-73-2	sodium hydroxide	50 mg/m ³
591-27-5	3-aminophenol	200 mg/m ³
7757-83-7	sodium sulphite	710 mg/m ³
89-25-8	3-methyl-1-phenyl-5-pyrazolone	690 mg/m ³
13463-67-7	titanium dioxide	2,000 mg/m ³
139-33-3	disodium dihydrogenethylenediaminetetraacetate	730 mg/m ³

7 Handling and storage

· **Handling:**· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **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 receptacle tightly sealed.

· **Storage class:** 10

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

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

57-55-6 Propylene glycol

WEEL Long-term value: 10 mg/m³

7664-41-7 ammonia, anhydrous

PEL Long-term value: 35 mg/m³, 50 ppmREL Short-term value: 27 mg/m³, 35 ppmLong-term value: 18 mg/m³, 25 ppmTLV Short-term value: 24 mg/m³, 35 ppmLong-term value: 17 mg/m³, 25 ppm

7757-82-6 sodium sulphate

TLV Short-term value: NIC-0.2 mg/m³
thoracic fraction of aerosol

108-46-3 resorcinol

REL Short-term value: 90 mg/m³, 20 ppmLong-term value: 45 mg/m³, 10 ppmTLV Short-term value: 90 mg/m³, 20 ppmLong-term value: 45 mg/m³, 10 ppm

1310-73-2 sodium hydroxide

PEL Long-term value: 2 mg/m³REL Ceiling limit value: 2 mg/m³TLV Ceiling limit value: 2 mg/m³· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **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.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

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application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

- **pH-value at 20 °C (68 °F):** 10

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	185 °C (365 °F)

- **Flash point:** >100 °C (>212 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 371 °C (699.8 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

- **Vapor pressure:** Not determined.

- **Density:** Not determined.

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

- **Solvent content:**

Organic solvents:	8.0 %
Water:	6.4 %
VOC content:	8.00 %
	80.0 g/l / 0.67 lb/gal

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Solids content: 54.3 %
Other information No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

57-55-6 Propylene glycol

Oral	LD50	2,000 mg/kg (rat)
Dermal	LD50	20,800 mg/kg (rabbit)

66422-95-5 Ethanol, 2-(2,4-diaminophenoxy)-, hydrochloride (1:2)

Oral	LD50	500 mg/kg (rat)
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337906-36-2 1,4-Benzenediamine, 2-(methoxymethyl)-

Oral	LD50	>150 mg/kg (rat) (bw (Guideline not indicated; rat; weight of eviden)
Dermal	LD50	431 mg/kg (rabbit) (bw (Calculated value; kinetic based calculation; r)
Inhalative	LC50/4 h	1.27 mg/l (rat)

6358-09-4 Phenol, 2-amino-6-chloro-4-nitro-

Oral	LD50	2,001 mg/kg (rat)
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7664-41-7 ammonia, anhydrous

Oral	LD50	350 mg/kg (rat)
Inhalative	LC50/4 h	2,000 mg/l (rat)

155601-30-2 1-(2-hydroxyethyl)-1H-pyrazol-4,5-diyldiammoniumsulfate

Oral	LD50	>2,000 mg/kg (rat) (bw (OECD 401))
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54381-16-7 N, N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate

Oral	LD50	107 mg/kg (rat)
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123-30-8 4-aminophenol

Oral	LD50	500 mg/kg (rat)
Dermal	LD50	>8,000 mg/kg (rabbit) (bw (//US EPA OPPTS 870.1200))

7757-82-6 sodium sulphate

Oral	LD50	5,989 mg/kg (mouse)
		>2,000 mg/kg (rat) (bw (OECD 423))
Inhalative	LC50/4 h	>2.4 mg/l (rat) (air (OECD 436))

108-46-3 resorcinol

Oral	LD50	301 mg/kg (rat) (bw (OECD 401))
Dermal	LD50	2,830 mg/kg (rabbit) (bw)
Inhalative	LC50/4 h	>7.8 mg/l (rat) (air)

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90-15-3 1-naphthol

Oral	LD50	1,700 mg/kg (rat) (bw)
Dermal	LD50	300 mg/kg (rabbit)

2835-95-2 5-amino-o-cresol

Oral	LD50	3,600 mg/kg (rat) (bw)
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1310-73-2 sodium hydroxide

Oral	LD50	2,000 mg/kg (rat)
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89-25-8 3-methyl-1-phenyl-5-pyrazolone

Oral	LD50	1,915 mg/kg (rat)
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13463-67-7 titanium dioxide

Oral	LD50	>5,000 mg/kg (rat) (bw (OECD 425))
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>3.43 mg/l (rat) (air (OECD 403))

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

108-46-3	resorcinol	3
13463-67-7	titanium dioxide	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

· **Additional ecological information:**· **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|---|
| <ul style="list-style-type: none"> · UN-Number · DOT · IMDG, IATA | <p style="margin-left: 20px;">not regulated</p> <p style="margin-left: 20px;">UN3082</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG · IATA | <p style="margin-left: 20px;">not regulated</p> <p style="margin-left: 20px;">ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AMMONIA, ANHYDROUS, 1,4-Benzenediamine, 2-(methoxymethyl)-), MARINE POLLUTANT</p> <p style="margin-left: 20px;">ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AMMONIA, ANHYDROUS, 1,4-Benzenediamine, 2-(methoxymethyl)-)</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT · Class | <p style="margin-left: 20px;">not regulated</p> |
| <ul style="list-style-type: none"> · IMDG, IATA <div style="text-align: center;">  </div> | <ul style="list-style-type: none"> · Class · Label <p style="margin-left: 20px;">9 Miscellaneous dangerous substances and articles</p> <p style="margin-left: 20px;">9</p> |
| <ul style="list-style-type: none"> · Packing group · DOT · IMDG, IATA | <p style="margin-left: 20px;">not regulated</p> <p style="margin-left: 20px;">III</p> |
| <ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: · Special marking (IATA): | <p style="margin-left: 20px;">Product contains environmentally hazardous substances: ammonia, anhydrous</p> <p style="margin-left: 20px;">Symbol (fish and tree)</p> <p style="margin-left: 20px;">Symbol (fish and tree)</p> |
| <ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups · Stowage Category | <p style="margin-left: 20px;">Warning: Miscellaneous dangerous substances and articles</p> <p style="margin-left: 20px;">90</p> <p style="margin-left: 20px;">F-A,S-F</p> <p style="margin-left: 20px;">Alkalis</p> <p style="margin-left: 20px;">A</p> |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | <p style="margin-left: 20px;">Not applicable.</p> |
| <ul style="list-style-type: none"> · Transport/Additional information: | |
| <ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) | <p style="margin-left: 20px;">5L</p> |

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· 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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (AMMONIA, ANHYDROUS, 1,4-BENZENEDIAMINE, 2-(METHOXYMETHYL)-, 9, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355 (extremely hazardous substances):**

7664-41-7 ammonia, anhydrous

· **Section 313 (Specific toxic chemical listings):**

7664-41-7 ammonia, anhydrous

7783-20-2 ammonium sulphate

· **TSCA (Toxic Substances Control Act):**

67762-27-0 Alcohols, C16-18

57-55-6 Propylene glycol

66422-95-5 Ethanol, 2-(2,4-diaminophenoxy)-, hydrochloride (1:2)

6358-09-4 Phenol, 2-amino-6-chloro-4-nitro-

7664-41-7 ammonia, anhydrous

54381-16-7 N, N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate

123-30-8 4-aminophenol

7757-82-6 sodium sulphate

108-46-3 resorcinol

90-15-3 1-naphthol

9005-00-9 Poly(oxy-1,2-ethanediyl), alpha-octadecyl-omega-hydroxy-

2835-95-2 5-amino-o-cresol

608-25-3 2-methylresorcinol

7783-20-2 ammonium sulphate

1310-73-2 sodium hydroxide

591-27-5 3-aminophenol

11138-66-2 Xanthan gum

7757-83-7 sodium sulphite

50-81-7 ascorbic acid

89-25-8 3-methyl-1-phenyl-5-pyrazolone

13463-67-7 titanium dioxide

139-33-3 disodium dihydrogenethylenediaminetetraacetate

7732-18-5 water, distilled, conductivity or of similar purity

· **TSCA new (21st Century Act) (Substances not listed)**

66422-95-5 Ethanol, 2-(2,4-diaminophenoxy)-, hydrochloride (1:2)

337906-36-2 1,4-Benzenediamine, 2-(methoxymethyl)-

155601-30-2 1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidammoniumsulfate

1361000-03-4 1-hexyl-1H-pyrazol-4,5 diamine sulfate (2:1)

54381-16-7 N, N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate

2835-95-2 5-amino-o-cresol

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· **Proposition 65**· **Chemicals known to cause cancer:**

13463-67-7 titanium dioxide

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

108-46-3 resorcinol

A4

13463-67-7 titanium dioxide

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7 titanium dioxide

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS05 GHS07

· **Signal word** Danger· **Hazard-determining components of labeling:**

Propylene glycol
 ammonia, anhydrous
 1-(2-hydroxyethyl)-1H-pyrazol-4,5-diyldiammoniumsulfate
 1,4-Benzenediamine, 2-(methoxymethyl)-
 1-hexyl-1H-pyrazol-4,5 diamine sulfate (2:1)
 N, N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate
 5-amino-o-cresol
 3-methyl-1-phenyl-5-pyrazolone

· **Hazard statements**

Harmful if swallowed.
 Causes skin irritation.
 Causes serious eye damage.
 May cause an allergic skin reaction.

· **Precautionary statements**
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves / eye protection / face protection.
 If swallowed: Call a poison center/doctor if you feel unwell.
 If on skin: Wash with plenty of water.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Immediately call a poison center/doctor.
 Specific treatment (see on this label).

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Rinse mouth.

Take off contaminated clothing and wash it before reuse.

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

Wash contaminated clothing before reuse.

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

· **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.

· **Department issuing SDS:** Abteilung Umweltschutz

· **Contact:** Hr. Dr. Speckbacher

· **Date of preparation / last revision** 08/30/2018 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

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