

Safety Data Sheet

acc. to OSHA HCS

Printing date 11/23/2021

Reviewed on 05/29/2019

1 Identification

- **Product identifier**
- **Trade name:** Clairol Professional Crème Permanente Family SDS
- **Article number:** 97413008, 315000012521
- **Application of the substance / the mixture**
Hair coloring product
Cosmetic product
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Wella International Operations Switzerland Sàrl, Chemin Louis-Hubert 1-3, 1213 Petit-Lancy, Switzerland
- **Information department:** Wella SDS Info Team
- **Emergency telephone number:**
CHEMTREC Emergency number: +1-704-741-5970
CHEMTREC: +1 703-741-5970

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

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**



GHS02



GHS05



GHS07

- **Signal word** Danger

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

Polyethylene glycol monooleyl ether

2-methyl-p-phenylenediamine sulphate

Alcohols, C12-15, ethoxylated

2-aminoethanol

2,4-DIAMINOPHENOXYETHANOL HCL

Ethanol, 2-(1,3-benzodioxol-5-ylamino)-, hydrochloride (1:1)

3-methyl-1-phenyl-5-pyrazolone

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isoeugenol

- **Hazard statements**

Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

- **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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

Wash thoroughly after handling.

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

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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).

Take off contaminated clothing and wash it before reuse.

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

Wash contaminated clothing before reuse.

In case of fire: Use CO₂, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

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

- **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:**

112-80-1	Oleic Acid	>10-<20%
9004-98-2	Polyethylene glycol monooleyl ether	>2.5-<10%
57-55-6	Propylene glycol	>2.5-≤10%
68131-39-5	Alcohols, C12-15, ethoxylated	≥3-≤10%
67-63-0	isopropyl alcohol	>2.5-<10%
61790-41-8	Quaternary ammonium compounds, trimethylsilylalkyl, chlorides	≥3-<10%
141-43-5	2-aminoethanol	>2.5-<5%
615-50-9	2-methyl-p-phenylenediamine sulphate	≥1-≤2.5%
7664-41-7	ammonia, anhydrous	≥1-≤2.5%
66422-95-5	2,4-DIAMINOPHENOXYETHANOL HCL	≥0.1-<1%
94158-14-2	Ethanol, 2-(1,3-benzodioxol-5-ylamino)-, hydrochloride (1:1)	≥0.1-<1%

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123-30-8	4-aminophenol	≥0.1-<1%
89-25-8	3-methyl-1-phenyl-5-pyrazolone	≥0.1-<1%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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:** If symptoms persist consult 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:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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-1:**

112-80-1	Oleic Acid	220 mg/m ³
57-55-6	Propylene glycol	30 mg/m ³
67-63-0	isopropyl alcohol	400 ppm
141-43-5	2-aminoethanol	6 ppm
7664-41-7	ammonia, anhydrous	30 ppm

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591-27-5	3-aminophenol	3 mg/m ³
151-21-3	sodium dodecyl sulphate	3.9 mg/m ³
12001-26-2	Mica	9 mg/m ³
7757-83-7	sodium sulphite	11 mg/m ³
139-33-3	Disodium EDTA	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
120-51-4	Benzyl benzoate	5.7 mg/m ³
91-64-5	Coumarin	0.88 mg/m ³

PAC-2:

112-80-1	Oleic Acid	2,400 mg/m ³
57-55-6	Propylene glycol	1,300 mg/m ³
67-63-0	isopropyl alcohol	2000* ppm
141-43-5	2-aminoethanol	170 ppm
7664-41-7	ammonia, anhydrous	160 ppm
591-27-5	3-aminophenol	33 mg/m ³
151-21-3	sodium dodecyl sulphate	43 mg/m ³
12001-26-2	Mica	99 mg/m ³
7757-83-7	sodium sulphite	120 mg/m ³
139-33-3	Disodium EDTA	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
120-51-4	Benzyl benzoate	63 mg/m ³
91-64-5	Coumarin	9.7 mg/m ³

PAC-3:

112-80-1	Oleic Acid	15,000 mg/m ³
57-55-6	Propylene glycol	7,900 mg/m ³
67-63-0	isopropyl alcohol	12000** ppm
141-43-5	2-aminoethanol	1,000 ppm
7664-41-7	ammonia, anhydrous	1,100 ppm
591-27-5	3-aminophenol	200 mg/m ³
151-21-3	sodium dodecyl sulphate	260 mg/m ³
12001-26-2	Mica	590 mg/m ³
7757-83-7	sodium sulphite	710 mg/m ³
139-33-3	Disodium EDTA	730 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
120-51-4	Benzyl benzoate	380 mg/m ³
91-64-5	Coumarin	58 mg/m ³

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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:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **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:** 3
- **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:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

57-55-6 Propylene glycol	
WEEL	Long-term value: 10 mg/m ³
67-63-0 isopropyl alcohol	
PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4
141-43-5 2-aminoethanol	
PEL	Long-term value: 6 mg/m ³ , 3 ppm
REL	Short-term value: 15 mg/m ³ , 6 ppm Long-term value: 8 mg/m ³ , 3 ppm
TLV	Short-term value: 6 ppm Long-term value: 3 ppm
7664-41-7 ammonia, anhydrous	
PEL	Long-term value: 35 mg/m ³ , 50 ppm
REL	Short-term value: 27 mg/m ³ , 35 ppm Long-term value: 18 mg/m ³ , 25 ppm
TLV	Short-term value: 35 ppm Long-term value: 25 ppm

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· **Ingredients with biological limit values:**

67-63-0 isopropyl alcohol

BEI	40 mg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Acetone (background, nonspecific)

· **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 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: Viscous

Color: According to product specification

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	52 °C (125.6 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	360 °C (680 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· 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:	15.9 %
Water:	37.8 %
VOC content:	6.65 %
	66.5 g/l / 0.55 lb/gal
Solids content:	5.1 %
· 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.

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· **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:**

112-80-1 Oleic Acid		
Oral	LD50	>2,000 mg/kg (rat) (bw)
Dermal	LD50	>2,150 mg/kg (rabbit) (bw)
57-55-6 Propylene glycol		
Oral	LD50	20,000 mg/kg (rat)
Dermal	LD50	20,800 mg/kg (rabbit)
67-63-0 isopropyl alcohol		
Oral	LD50	5,840 mg/kg (rat) (bw (//OECD 401))
Dermal	LD50	12,956 mg/kg (rabbit) (bw (//OECD 402))
Inhalative	LC50/4 h	>24.578 mg/l (rat) (air (//OECD 403))
61790-41-8 Quaternary ammonium compounds, trimethylsoyaalkyl, chlorides		
Oral	LD50	500 mg/kg (rat)
141-43-5 2-aminoethanol		
Oral	LD50	1,089 mg/kg (rat) (bw (Similar to OECD 401; standard acute method; ra)
Dermal	LD50	1,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (rat)
615-50-9 2-methyl-p-phenylenediamine sulphate		
Oral	LD50	183 mg/kg (rat) (bw)
Dermal	LD50	1,100 mg/kg (rabbit)
Inhalative	LC50/4 h	1.77 mg/l (rat) (air (QSAR))
7664-41-7 ammonia, anhydrous		
Oral	LD50	350 mg/kg (rat)
Inhalative	LC50/4 h	2,000 mg/l (rat)
66422-95-5 2,4-DIAMINOPHENOXYETHANOL HCL		
Oral	LD50	1,000 mg/kg (rat)
94158-14-2 Ethanol, 2-(1,3-benzodioxol-5-ylamino)-, hydrochloride (1:1)		
Oral	LD50	850 mg/kg (mouse)
		1,550 mg/kg (rat)
123-30-8 4-aminophenol		
Oral	LD50	500 mg/kg (rat)
Dermal	LD50	>8,000 mg/kg (rabbit) (bw (//US EPA OPPTS 870.1200))
89-25-8 3-methyl-1-phenyl-5-pyrazolone		
Oral	LD50	1,915 mg/kg (rat)

· **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.

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· **Additional toxicological information:**

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

· **Carcinogenic categories**

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

67-63-0	isopropyl alcohol	3
13463-67-7	titanium dioxide	2B
91-64-5	Coumarin	3
97-53-0	Eugenol	3

· **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 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even 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.

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

· **UN-Number**

· **DOT, IMDG, IATA**

UNI266

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· **UN proper shipping name**
 · **DOT**
 · **IMDG, IATA**

Perfumery products
PERFUMERY PRODUCTS

· **Transport hazard class(es)**
 · **DOT**



· **Class**
 · **Label**

3 Flammable liquids
3

· **IMDG, IATA**



· **Class**
 · **Label**

3 Flammable liquids
3

· **Packing group**
 · **DOT, IMDG, IATA**

III

· **Environmental hazards:** *Not applicable.*

· **Special precautions for user** *Warning: Flammable liquids*
 · **Hazard identification number (Kemler code):** *30*
 · **EMS Number:** *F-E,S-D*
 · **Segregation groups** *, alkalis*
 · **Stowage Category** *A*

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** *Not applicable.*

· **Transport/Additional information:**

· **DOT**
 · **Quantity limitations**

On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L

· **IMDG**
 · **Limited quantities (LQ)**
 · **Excepted quantities (EQ)**

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** *UN 1266 PERFUMERY PRODUCTS, 3, III*

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

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· **Sara**· **Section 355 (extremely hazardous substances):**

7664-41-7	ammonia, anhydrous
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· **Section 313 (Specific toxic chemical listings):**

67-63-0	isopropyl alcohol
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7664-41-7	ammonia, anhydrous
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· **TSCA (Toxic Substances Control Act):**

7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
112-80-1	Oleic Acid	ACTIVE
9004-98-2	Polyethylene glycol monooleyl ether	ACTIVE
57-55-6	Propylene glycol	ACTIVE
68131-39-5	Alcohols, C12-15, ethoxylated	ACTIVE
91031-31-1	Fatty acids, C16-18, esters with ethylene glycol	ACTIVE
67-63-0	isopropyl alcohol	ACTIVE
61790-41-8	Quaternary ammonium compounds, trimethylsoyaalkyl, chlorides	ACTIVE
141-43-5	2-aminoethanol	ACTIVE
615-50-9	2-methyl-p-phenylenediamine sulphate	ACTIVE
7664-41-7	ammonia, anhydrous	ACTIVE
591-27-5	3-aminophenol	ACTIVE
151-21-3	sodium dodecyl sulphate	ACTIVE
66422-95-5	2,4-DIAMINOPHENOXYETHANOL HCL	ACTIVE
123-30-8	4-aminophenol	ACTIVE
50-81-7	ascorbic acid	ACTIVE
7757-83-7	sodium sulphite	ACTIVE
139-33-3	Disodium EDTA	ACTIVE
89-25-8	3-methyl-1-phenyl-5-pyrazolone	ACTIVE
13463-67-7	titanium dioxide	ACTIVE
2835-95-2	5-amino-o-cresol	ACTIVE
127-51-5	alpha-iso-Methylionone	ACTIVE
101-86-0	Hexyl cinnamal	ACTIVE
118-58-1	benzyl salicylate	ACTIVE
104-54-1	Cinnamyl alcohol	ACTIVE
97-54-1	isoeugenol	ACTIVE
120-51-4	Benzyl benzoate	ACTIVE
91-64-5	Coumarin	ACTIVE
97-53-0	Eugenol	ACTIVE
104-55-2	Cinnamal	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

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

13463-67-7	titanium dioxide
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· **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)**

67-63-0	isopropyl alcohol	A4
13463-67-7	titanium dioxide	A4

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

13463-67-7	titanium dioxide
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· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS05 GHS07

· **Signal word** Danger

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

Polyethylene glycol monooleyl ether
 2-methyl-p-phenylenediamine sulphate
 Alcohols, C12-15, ethoxylated
 2-aminoethanol
 2,4-DIAMINOPHENOXYETHANOL HCL
 Ethanol, 2-(1,3-benzodioxol-5-ylamino)-, hydrochloride (1:1)
 3-methyl-1-phenyl-5-pyrazolone
 isoeugenol

· **Hazard statements**

Flammable liquid and vapor.
 Causes skin irritation.
 Causes serious eye damage.
 May cause an allergic skin reaction.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO₂, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
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** 11/23/2021 / -

· **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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

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

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

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