

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name or designation of the mixture	PULP RIOT DEMI-PERMANENT COLOR - GROUP 5
Synonyms	None.
SDS number	30-21-0000291
Product code	1242446,1242447,1242478
Issue date	05-18-2020
Version number	01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Personal care product used for cosmetic effect.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet**Contact person**

Company name	L'ORÉAL SA
Address	14, rue royale 75008 - Paris France
Telephone	+1 732 499 2745
e-mail	nacorpeuopesdsrequest@loreal.com

1.4. Emergency telephone number INFOTRAC: +1-352-323-3500

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended**Physical hazards**

Flammable liquids	Category 3	H226 - Flammable liquid and vapor.
-------------------	------------	------------------------------------

Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
--	------------	---

Hazard summary

May be ignited by heat, sparks or flames. Causes serious eye damage. Causes skin irritation. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

2.2. Label elements**Label according to Regulation (EC) No. 1272/2008 as amended**

Contains: DECETH-3, GLYCERYL LAURYL ETHER, LAURETH-5 CARBOXYLIC ACID

Hazard pictograms

Signal word Danger

Hazard statements

H226	Flammable liquid and vapor.
------	-----------------------------

H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe vapor.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P101 If medical advice is needed, have product container or label at hand.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal

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

Supplemental label information

11,8% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 21% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. EUH208 - Contains AMMONIUM THIOLACTATE, TOLUENE-2,5-DIAMINE, 4-AMINO-2-HYDROXYTOLUENE, M-AMINOPHENOL. May produce an allergic reaction.

2.3. Other hazards

Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
ETHANOL	< 9	64-17-5 200-578-6	01-2119457610-43	603-002-00-5	
Classification:	Flam. Liq. 2;H225, Eye Irrit. 2;H319				
PEG-4 RAPESEEDAMIDE	< 9	- 932-164-2	01-2119565130-50	-	
Classification:	Skin Irrit. 2;H315, Aquatic Chronic 3;H412				
DECETH-3	< 7	67254-71-1 939-592-9	01-2119978671-25	-	
Classification:	Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 3;H412				
LAURETH-5 CARBOXYLIC ACID	< 5	27306-90-7 608-079-9	-	-	
Classification:	Skin Irrit. 2;H315, Eye Dam. 1;H318				
GLYCERYL LAURYL ETHER	≤ 7	9022-75-7 470-470-3	01-0000019726-61	-	
Classification:	Skin Corr. 1C;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 2;H411				
HEXYLENE GLYCOL	≤ 3	107-41-5 203-489-0	01-2119539582-35	603-053-00-3	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319				
AMMONIUM THIOLACTATE	< 0,5	13419-67-5 236-526-4	01-2120775147-48	-	
Classification:	Met. Corr. 1;H290, Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1B;H317, Eye Irrit. 2;H319				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
4-AMINO-2-HYDROXYTOLUENE	< 0,1	2835-95-2 220-618-6	01-2120766272-54	-	
Classification:	Skin Sens. 1A;H317, Aquatic Chronic 2;H411				
M-AMINOPHENOL	< 0,1	591-27-5 209-711-2	01-2119930678-27	612-127-00-4	
Classification:	Acute Tox. 4;H302, Skin Sens. 1A;H317, Acute Tox. 4;H332, Aquatic Chronic 2;H411				
TOLUENE-2,5-DIAMINE	≤ 0,1	95-70-5 202-442-1	01-2120136877-44	612-125-00-3	
Classification:	Acute Tox. 3;H301, Acute Tox. 4;H312, Skin Sens. 1A;H317, Eye Dam. 1;H318, Acute Tox. 4;H332, Aquatic Chronic 2;H411				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Flammable liquid and vapor.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe vapor. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values.

Components	Type	Value
ETHANOL (CAS 64-17-5)	TWA	1907 mg/m3
		1000 ppm
HEXYLENE GLYCOL (CAS 107-41-5)	TWA	123 mg/m3
		25 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
ETHANOL (CAS 64-17-5)	VLE	9500 mg/m3
		Regulatory status: Indicative limit (VL)
	VME	5000 ppm
		Regulatory status: Indicative limit (VL)
VLE	1900 mg/m3	
	Regulatory status: Indicative limit (VL)	
Regulatory status: Indicative limit (VL)	1000 ppm	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
HEXYLENE GLYCOL (CAS 107-41-5)	VLE	125 mg/m3
Regulatory status:	Indicative limit (VL)	25 ppm
Regulatory status:	Indicative limit (VL)	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
DIPROPYLENE GLYCOL (CAS 25265-71-8)	TWA	100 mg/m3	Vapor and aerosol, inhalable fraction.
ETHANOL (CAS 64-17-5)	TWA	380 mg/m3 200 ppm	
HEXYLENE GLYCOL (CAS 107-41-5)	TWA	49 mg/m3	Vapor and aerosol.
		10 ppm	Vapor and aerosol.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
DIPROPYLENE GLYCOL (CAS 25265-71-8)	AGW	100 mg/m3	Inhalable fraction.
ETHANOL (CAS 64-17-5)	AGW	380 mg/m3 200 ppm	

Italy. Occupational Exposure Limits

Components	Type	Value	Form
ETHANOL (CAS 64-17-5)	STEL	1000 ppm	
HEXYLENE GLYCOL (CAS 107-41-5)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
ETHANOL (CAS 64-17-5)	TWA	1900 mg/m3	
HEXYLENE GLYCOL (CAS 107-41-5)	STEL	100 mg/m3	Inhalable fraction and vapor.
	TWA	50 mg/m3	Inhalable fraction and vapor.
PROPYLENE GLYCOL (CAS 57-55-6)	TWA	100 mg/m3	Inhalable fraction and vapor.

Spain. Occupational Exposure Limits

Components	Type	Value
ETHANOL (CAS 64-17-5)	STEL	1910 mg/m3 1000 ppm
HEXYLENE GLYCOL (CAS 107-41-5)	STEL	123 mg/m3 25 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.
Individual protection measures, such as personal protective equipment	
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Applicable for industrial settings only. Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	
- Hand protection	Applicable for industrial settings only. Wear appropriate chemical resistant gloves.
- Other	Applicable for industrial settings only. Wear appropriate chemical resistant clothing.
Respiratory protection	Applicable for industrial settings only. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	7,7 - 8,6
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 95 °F (> 35 °C)
Flash point	118,4 °F (48,0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2. Other information

Fire point	< 212,00 °F (< 100,00 °C) ISO 2592
-------------------	------------------------------------

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity Not known.

Components	Species	Test Results
4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)		
<u>Acute</u>		
Oral		
LD50	Rat	3600 mg/kg
AMMONIUM THIOLACTATE (CAS 13419-67-5)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg OECD 402
Oral		
LD50	Rat	1797 mg/kg OECD 401
DECETH-3 (CAS 67254-71-1)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg Based on test data for structurally similar materials.
Oral		
LD50	Rat	> 2000 mg/kg Based on test data for structurally similar materials.
ETHANOL (CAS 64-17-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 20000 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	124,7 mg/l, 4 h OECD 403
Oral		
LD50	Rat	10470 mg/kg OECD 401
GLYCERYL LAURYL ETHER (CAS 9022-75-7)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/l OECD 402

Components	Species	Test Results
Oral		
LD50	Rat	> 2000 mg/l OECD 423
HEXYLENE GLYCOL (CAS 107-41-5)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg OECD 402
Inhalation		
LC50	Rat	> 60 ml/m3 air, 8 h OECD 403
Oral		
LD50	Rat	> 2000 mg/kg OECD 420
LAURETH-5 CARBOXYLIC ACID (CAS 27306-90-7)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg OECD 401
M-AMINOPHENOL (CAS 591-27-5)		
Acute		
Inhalation		
LC50	Rat	1162 mg/m3
Oral		
LD50	Rat	924 mg/kg
PEG-4 RAPESEEDAMIDE		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg OECD 402
Inhalation		
LC50	Rat	6 mg/L air, 4 h OECD 436
Oral		
LD50	Rat	> 2000 mg/kg OECD 401
TOLUENE-2,5-DIAMINE (CAS 95-70-5)		
Oral		
LD50	Rat	102 mg/kg OECD 401
Acute		
Dermal		
LD50	Rabbit	3520 mg/kg
Inhalation		
<i>Dust</i>		
LC50	Rat	0,99 mg/l, 4 h
Skin corrosion/irritation	Causes skin irritation.	
Irritation Corrosion - Skin		
GLYCERYL LAURYL ETHER		OECD 404 Result: Corrosive Species: Rabbit
AMMONIUM THIOACTATE		OECD 404 Result: Irritating Species: Rabbit
PEG-4 RAPESEEDAMIDE		OECD 404 Result: Irritating Species: Rabbit
ETHANOL		OECD 404 Result: Not Irritating Species: Rabbit
M-AMINOPHENOL		OECD 404 Result: Not Irritating Species: Rabbit
LAURETH-5 CARBOXYLIC ACID		OECD 404 Result: Slightly Irritating Species: Rabbit

Irritation Corrosion - Skin

DECETH-3

OECD 404, Based on test data for structurally similar materials.

Result: Slightly Irritating

Species: Rabbit

HEXYLENE GLYCOL

OECD 405

Result: Slightly irritating

Species: Rabbit

TOLUENE-2,5-DIAMINE

OECD 439

Result: Not Irritating

Species: In vitro

4-AMINO-2-HYDROXYTOLUENE

OECD 439

Result: Not Irritating

Species: RhE

Serious eye damage/eye irritation

Causes serious eye damage.

Irritation Corrosion - Eye

LAURETH-5 CARBOXYLIC ACID

OECD 405

Result: Corrosive

Species: Rabbit

TOLUENE-2,5-DIAMINE

OECD 405

Result: Corrosive

Species: Rabbit

AMMONIUM THIOLACTATE

OECD 405

Result: Irritating

Species: Rabbit

ETHANOL

OECD 405

Result: Irritating

Species: Rabbit

M-AMINOPHENOL

OECD 405

Result: Not Irritating

Species: Rabbit

HEXYLENE GLYCOL

OECD 405

Result: Slightly irritating

Species: Rabbit

PEG-4 RAPESEEDAMIDE

OECD 405

Result: Slightly Irritating

Species: Rabbit

4-AMINO-2-HYDROXYTOLUENE

OECD 492

Result: Not Irritating

Species: RhCE

GLYCERYL LAURYL ETHER

Result: Corrosive

DECETH-3

Result: Corrosive

Species: Rabbit

HEXYLENE GLYCOL

Result: Irritating

Species: Human

Respiratory sensitization

Due to partial or complete lack of data the classification is not possible.

Skin sensitization

Due to partial or complete lack of data the classification is not possible.

Skin sensitization

AMMONIUM THIOLACTATE

OECD 406

Result: Equivocal

Species: Guinea pig

ETHANOL

OECD 406

Result: Not Sensitizing

Species: Guinea pig

GLYCERYL LAURYL ETHER

OECD 406

Result: Not Sensitizing

Species: Guinea pig

HEXYLENE GLYCOL

OECD 406

Result: Not Sensitizing

Species: Guinea pig

LAURETH-5 CARBOXYLIC ACID

OECD 406

Result: Not Sensitizing

Species: Guinea pig

PEG-4 RAPESEEDAMIDE

OECD 406

Result: Not Sensitizing

Species: Guinea pig

DECETH-3

OECD 406, Based on test data for structurally similar materials.

Result: Not Sensitizing

Species: Guinea pig

Skin sensitization

4-AMINO-2-HYDROXYTOLUENE

OECD 429
Result: Sensitizing
Species: Mouse

M-AMINOPHENOL

OECD 429
Result: Sensitizing
Species: Mouse

TOLUENE-2,5-DIAMINE

OECD 429
Result: Sensitizing
Species: Mouse**Germ cell mutagenicity**

Due to partial or complete lack of data the classification is not possible.

Mutagenicity

ETHANOL

Result: In vitro and in vivo tests did not show mutagenic effects.

PEG-4 RAPESEEDAMIDE

Result: In vitro and in vivo tests did not show mutagenic effects.

AMMONIUM THIOLACTATE

Result: In vitro tests did not show mutagenic effects

DECETH-3

Result: In vitro tests did not show mutagenic effects

GLYCERYL LAURYL ETHER

Result: In vitro tests did not show mutagenic effects

HEXYLENE GLYCOL

Result: In vitro tests did not show mutagenic effects

LAURETH-5 CARBOXYLIC ACID

Result: In vitro tests did not show mutagenic effects

M-AMINOPHENOL

Result: In vitro tests showed mutagenic effects which were not observed with in vivo test.

TOLUENE-2,5-DIAMINE

Result: In vitro tests showed mutagenic effects which were not observed with in vivo test.

4-AMINO-2-HYDROXYTOLUENE

Result: In vitro tests showed mutagenic effects which were not observed with in vivo tests.

Carcinogenicity

Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

IARC Monographs. Overall Evaluation of Carcinogenicity

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

3 Not classifiable as to carcinogenicity to humans.

Slovenia. CMR. Protection of workers from exposure to carcinogen and mutagen agents (ULRS 101/2005, as amended)

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

Carcinogenic, Category 1B.

Reproductive toxicity

Due to partial or complete lack of data the classification is not possible.

Developmental effects

ETHANOL

> 20000 ppm OECD 414, No effects on development

Result: NOAEL

Species: Rat

M-AMINOPHENOL

100 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

4-AMINO-2-HYDROXYTOLUENE

180 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

HEXYLENE GLYCOL

300 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

TOLUENE-2,5-DIAMINE

50 mg/kg bw/d OECD 414, Based on test data for structurally similar materials.

Result: NOAEL

Species: Rat

PEG-4 RAPESEEDAMIDE

500 mg/kg bw/d OECD 421, No effects on development

Result: NOEL

Species: Rat

GLYCERYL LAURYL ETHER

600 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

Reproductivity

TOLUENE-2,5-DIAMINE

>= 45 mg/kg bw/d OECD 416, Based on test data for structurally similar materials.

Result: NOAEL

Species: Rat

HEXYLENE GLYCOL

1000 mg/kg bw/d OECD 421

Result: NOEL

Species: Rat

Reproductivity

AMMONIUM THIOLACTATE	20 mg/kg bw/d OECD 416 Result: NOEL Species: Rat
4-AMINO-2-HYDROXYTOLUENE	200 mg/kg bw/d OECD 415 Result: NOAEL Species: Rat
ETHANOL	20700 mg/kg bw/d OECD 416, No effects on fertility Result: NOAEL Species: Rat
PEG-4 RAPESEEDAMIDE	500 mg/kg bw/d OECD 421, No effects on fertility Result: NOEL Species: Rat
GLYCERYL LAURYL ETHER	600 mg/kg bw/d OECD 421 Result: NOAEL Species: Rat

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

TOLUENE-2,5-DIAMINE	10 mg/kg bw/d OECD 408, Oral Result: NOEAL Species: Rat Test Duration: 90 d
DECETH-3	100 mg/kg bw/d OECD 407, Based on test data for structurally similar materials. Result: NOAEL Species: Rat Test Duration: 28 d
GLYCERYL LAURYL ETHER	150 mg/kg bw/d OECD 407 Result: NOAEL Species: Rat Test Duration: 28 d
PEG-4 RAPESEEDAMIDE	150 mg/kg bw/d OECD 407, Oral Result: NOAEL Species: Rat
ETHANOL	1730 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat
4-AMINO-2-HYDROXYTOLUENE	180 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
AMMONIUM THIOLACTATE	20 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 13 wk
M-AMINOPHENOL	20 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 90 d
HEXYLENE GLYCOL	450 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information No information available.

Other information The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Components	Species	Test Results
4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)		
Aquatic		
<i>Acute</i>		
Algae	EC50 Pseudokirchneriella subcapitata	41 mg/l, 72 h OECD 201

Components		Species	Test Results
Crustacea	EC50	Daphnia magna	2,3 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	25 mg/l, 96 h OECD 236
Other	EC50	Activated sludge of a predominantly domestic sewage	> 150 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0,24 mg/l, 21 d OECD 211
AMMONIUM THIOLACTATE (CAS 13419-67-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	200 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	> 100 mg/l, 96 h OECD 203
DECETH-3 (CAS 67254-71-1)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	1,8 mg/l, 72 h 92/69/EWG
Crustacea	EC50	Daphnia magna	0,39 mg/l, 48 h 92/69/EWG
Fish	LC50	Cyprinus carpio	1,2 mg/l, 96 h EU C.1
Other	EC0	Activated sludge of a predominantly domestic sewage	140 mg/l, 3 h 88/302/EG
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	<= 1 mg/l, 21 d
Fish	NOEC	Lepomis macrochirus	0,16 mg/l, 10 d
ETHANOL (CAS 64-17-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	22200 mg/l, 96 h
Crustacea	EC50	Ceriodaphnia dubia	5012 mg/l, 48 h
Fish	LC50	Pimephales promelas	15300 mg/l, 96 h
Other	IC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	9,6 mg/l, 9 d
Fish	NOEC	Danio rerio	250 mg/l, 120 h OECD 212
GLYCERYL LAURYL ETHER (CAS 9022-75-7)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	1,11 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0,875 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	1,61 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	31,6 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0,036 mg/l, 21 d OECD 211
Fish	NOEC	Danio rerio	0,086 mg/l, 30 d OECD 210
HEXYLENE GLYCOL (CAS 107-41-5)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 429 mg/l, 72 hours OECD 201
Crustacea	EC50	Daphnia magna	5410 mg/l, 48 hours OECD 202
Fish	LC50	Pimephales promelas	10700 mg/l, 96 hours OECD 203
Other	NOEC	Pseudomonas aeruginosa	200 mg/l, 10 days

Components	Species	Test Results
LAURETH-5 CARBOXYLIC ACID (CAS 27306-90-7)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Oncorhynchus mykiss 7,5 mg/l, 96 h
M-AMINOPHENOL (CAS 591-27-5)		
<i>Acute</i>		
Other	IC50	Tetrahymena pyriformis 361 mg/l, 40 h
Aquatic		
<i>Acute</i>		
Algae	EC50	Pseudokirchneriella subcapitata 62 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna 1,1 mg/l, 48 h DIN 38412, Pt. 11
Fish	LC50	Danio rerio 82,64 mg/l, 96 h OECD 203
<i>Chronic</i>		
Crustacea	NOEC	Daphnia magna 0,05 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes 25 mg/l, 25 d OECD 204
PEG-4 RAPESEEDAMIDE		
Aquatic		
<i>Acute</i>		
Algae	EC50	Desmodesmus subspicatus 410 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna 3,8 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss 2,9 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage > 1000 mg/l, 3 h OECD 209
<i>Chronic</i>		
Crustacea	NOEC	Daphnia magna 0,39 mg/l, 21 d OECD 211
TOLUENE-2,5-DIAMINE (CAS 95-70-5)		
Aquatic		
<i>Acute</i>		
Algae	EC50	Pseudokirchneriella subcapitata 1,02 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna 0,491 mg/l, 48 h OECD 202
Fish	LC50	Oryzias latipes 0,05 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage 3,75 mg/l, 3 h OECD 209
<i>Chronic</i>		
Algae	NOEC	Pseudokirchneriella subcapitata 0,11 mg/l, 72 h OECD 201

12.2. Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

4-AMINO-2-HYDROXYTOLUENE	0 % OECD 301 B Result: Not Readily Biodegradable Test Duration: 28 d
AMMONIUM THIOLACTATE	14 % OECD 301 B Result: Not Readily Biodegradable Test Duration: 28 d
DECETH-3	78 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
ETHANOL	84 % Result: Readily Biodegradable Test Duration: 20 d
GLYCERYL LAURYL ETHER	88 % OECD 301 B Result: Readily Biodegradable
HEXYLENE GLYCOL	81 % OECD 301 F Result: Readily biodegradable Test Duration: 28 d
LAURETH-5 CARBOXYLIC ACID	78 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d

Biodegradability

Percent degradation (Aerobic biodegradation)

PEG-4 RAPESEEDAMIDE

96 % OECD 203

Result: Readily Biodegradable

Test Duration: 28 d

TOLUENE-2,5-DIAMINE

17 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

4-AMINO-2-HYDROXYTOLUENE

-0,53 EU A,8

0,53 OECD 117

AMMONIUM THIOLACTATE

1,15 OECD 117

ETHANOL

-0,31

GLYCERYL LAURYL ETHER

3,79 - 4,25

M-AMINOPHENOL

0,21

PEG-4 RAPESEEDAMIDE

5

TOLUENE-2,5-DIAMINE

-0,321 OECD 107

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.7. Additional information

The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions

Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

FINISHED GOODS

14.1. UN number

UN1170

14.2. UN proper shipping name

ETHANOL SOLUTION, Limited Quantity

14.3. Transport hazard class(es)

Class

3

Label(s)

Limited Quantity

Hazard No. (ADR)

30

Tunnel restriction code

D/E

14.4. Packing group

III

14.5. Environmental hazards

No

14.6. Special precautions for user

Not available.

LTD QTY Net Inner Capacity

5.0 L

BULK

14.1. UN number

UN1170

14.2. UN proper shipping name

ETHANOL SOLUTION

14.3. Transport hazard class(es)

Class

3

Label(s)

3

Hazard No. (ADR) 30
Tunnel restriction code D/E
14.4. Packing group III
14.5. Environmental hazards No.
14.6. Special precautions Not available.
for user

IATA

FINISHED GOODS

14.1. UN number ID8000
14.2. UN proper shipping name CONSUMER COMMODITY
14.3. Transport hazard class(es)
Class 9
14.4. Packing group Not applicable.
14.5. Environmental hazards No.
ERG Code 9L
14.6. Special precautions Not available.
for user

Other information

Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

BULK

14.1. UN number UN1170
14.2. UN proper shipping name ETHANOL SOLUTION
14.3. Transport hazard class(es)
Class 3
14.4. Packing group III
14.5. Environmental hazards No.
ERG Code 3L
14.6. Special precautions Not available.
for user

Other information

Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

IMDG

FINISHED GOODS

14.1. UN number UN1170
14.2. UN proper shipping name ETHANOL SOLUTION, Limited Quantity
14.3. Transport hazard class(es)
Class 3
Label(s) Limited Quantity
14.4. Packing group III
14.5. Environmental hazards
Marine pollutant No.
EmS F-E, S-D
14.6. Special precautions Not available.
for user

LTD QTY Net Inner Capacity 5.0 L

BULK

14.1. UN number UN1170
14.2. UN proper shipping name ETHANOL SOLUTION
14.3. Transport hazard class(es)
Class 3
14.4. Packing group III
14.5. Environmental hazards
Marine pollutant No.
EmS F-E, S-D

14.6. Special precautions for user Not available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not established.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ETHANOL (CAS 64-17-5)

M-AMINOPHENOL (CAS 591-27-5)

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapor.
H290 May be corrosive to metals.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Revision information

Training information

Disclaimer

None.

Follow training instructions when handling this material.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.