

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name: ELAN professional line SMART BROW TINTING SYSTEM Long-Lasting Eyebrow Tint «Deep Brow Tint» 05 SPICY warm brown

Product code

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

Use of substance/mixture: PC39: Cosmetics, personal care products. SU21 - Professional uses

### 1.3. Details of the supplier of the safety data sheet

Producer Individual Entrepreneur Kravchenko Viktoriya Volodymyrivna  
14/24, Klovsky descent, 01021, Kyiv, Ukraine  
Phone/Fax: +38 050 724 50 50

### 1.4. Emergency telephone number

LATVIA - State fire and rescue service: (+371) 112; (+371) 113;  
The national poison information center: +371 67042468;  
GERMANY - International emergency number: +49 180 2273-112.  
Transport Emergency phone number: (24 h service), phone: +49 621 60-43333;  
UNITED KINGDOM - National Poisons Information Service (24 h service),  
phone: +44 (0) 844-892-0111 (UK only);  
FRANCE - INRS FRANCE: phone: +33 (0)1 45 42 59-59.  
FOR OTHER EU COUNTRIES, please consult:  
[http://echa.europa.eu/help/nationalhelp\\_contact\\_en.asp](http://echa.europa.eu/help/nationalhelp_contact_en.asp)  
Emergency telephone for other regions to be filled out by local business

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Product definition	Mixture
Classification according to regulation (EC) No 1272/2008:	This product is a cosmetics product and as cosmetic product does not be a subject to the CLP Regulation (EC) no 1272/2008.

### 2.2. Label elements

According to regulation (EC) No 1272/2008:

Symbol:	None
Signal word:	None
Hazard statements:	None
Hazardous ingredients:	None
Precautionary statements:	None
Supplemental label elements	Not applicable
Special packaging requirements	
Containers to be fitted with child-resistant fastenings:	No, not applicable
Tactile warning of danger $\triangle$ :	No, not applicable

### 2.3. Other hazards

Product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

See section 11 for more detailed information on health effects and symptoms.

## SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures Solution of the following hazardous substances and non-hazardous substances.

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

INCI name	Identifiers	Conc. %	Classification according to Regulation (EC) 1272/2008 (CLP)	Type
Aqua	EC no: 231-791-2 CAS no: 7732-18-5 INDEX: Not available REACH: Not available	to 100	No classified	-
Cetearyl Alcohol	EC no: 267-008-6 CAS no: 67762-27-0/8005-44-5 INDEX: Not available REACH: Not available	5,50-6,00	No classified	-
Trideceth-2 carboxamide MEA	EC no: Not available CAS no: 107628-04-6 INDEX: Not available REACH: Not available	4,50-5,00	No classified	-
Ethoxydiglycol	EC no: 203-919-7 CAS no: 111-90-0 INDEX: Not available REACH: Not available	4,50-5,00	No classified	-
Dimethylamino Methylpropanol	EC no: 230-279-6 CAS no: 7005-47-2 INDEX: Not available REACH: Not available	4,50-5,00	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Damage 1, H318	[1]
Glyceryl Stearate SE	EC no: 234-325-6 CAS no: 11099-07-3 INDEX: Not available REACH: Not available	2,50-3,00	No classified	-
Toluene-2,5-Diamine Sulfate	EC no: 230-279-6 CAS no: 615-50-9 INDEX: 612-030-00-7 REACH: Not available	2,80-3,00	Acute Tox. 3, H301 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Glycerin	EC no: 200-289-5 CAS no: 56-81-5 INDEX: Not available REACH: Not available	1,50-2,00	No classified	-
Ceteareth-20	EC no: Not available CAS no: 68439-49-6 INDEX: Not available REACH: Not available	1,50-2,00	Acute Tox. 4, H302 Eye Damage 1, H318 Aquatic Acute 1, H400	[1]
Glyceryl Stearate	EC no: 250-705-4/286-490-9 CAS no: 31566-31-1 INDEX: Not available REACH: Not available	1,50-2,00	No classified	-
PEG-100 Stearate	EC no: Not available CAS no: 9004-99-3 INDEX: Not available REACH: Not available	1,50-2,00	No classified	-
p-Phenylenediamine	EC no: 203-404-7 CAS no: 106-50-3 INDEX: 612-028-00-6 REACH: Not available	1,80-2,00	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 1, H410	[1], [2]
Cocamidopropylamine oxide	EC no: 268-938-5/931-324-9 CAS no: 68155-09-9 INDEX: Not available REACH: Not available	0,70-1,20	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Damage 1, H318	[1]

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

Disodium EDTA	EC no: 205-358-3 CAS no: 139-33-3 --- 6381-92-6 INDEX: Not available REACH: Not available	0,50-1,00	Acute Tox. 4, H332 STOT RE 2, H373	[1]
4-Amino-m-Cresol	EC no: 220-621-2 CAS no: 2835-99-6 INDEX: Not available REACH: Not available	0,80-1,00	Acute Tox. 4, H302 Skin Sens. 1A, H317 Aquatic Chronic 1, H410	[1]
Microcrystalline Cellulose	EC no: 232-674-9 CAS no: 9004-34-6 INDEX: Not available REACH: Not available	0,10-0,60	No classified	-
Xanthan gum	EC no: 234-394-2 CAS no: 11138-66-2 INDEX: Not available REACH: Not available	0,10-0,60	No classified	-
Urea	EC no: 200-315-5 CAS no: 57-13-6 INDEX: Not available REACH: Not available	0,10-0,60	No classified	-
Sodium sulfite	EC no: 231-821-4 CAS no: 7757-83-7 INDEX: Not available REACH: Not available	0,10-0,50	No classified	-
Diazolidinyl Urea	EC no: 278-928-2 CAS no: 78491-02-8 INDEX: Not available REACH: Not available	0,005 0,10	Eye Irrit. 2, H319	[1]
Methylparaben	EC no: 202-785-7 CAS no: 99-76-3 INDEX: Not available REACH: Not available	0,018 0,09	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Propylparaben	EC no: 202-307-7 CAS no: 94-13-3 INDEX: Not available REACH: Not available	0,002- 0,01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
Propylene glycol	EC no: 200-338-0 CAS no: 57-55-6 INDEX: Not available REACH: Not available	0,06-0,30	No classified	-
Sodium Erythorbate	EC no: 228-973-9 CAS no: 6381-77-7 INDEX: Not available REACH: Not available	0,10-0,40	No classified	-
Butylene Glycol	EC no: 203-529-7, 228-532-0 CAS no: 107-88-0, 6290-03-5 INDEX: Not available REACH: Not available	0,10	No classified	-
Helianthus Annuus Seed Extract	EC no: - / 232-273-9 CAS no: 84776-03-4 / 8001-21-6 INDEX: Not available REACH: Not available	0,10	No classified	-
Parfum	EC no: Not available CAS no: Not available INDEX: Not available REACH: Not available	0,10	No classified	-
m-Aminophenol	EC no: 209-711-2 CAS no: 591-27-5	0,10	Acute Tox. 4, H302 Acute Tox. 4, H332	[1], [2]

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

	INDEX: 612-127-00-4 REACH: Not available		Aquatic Chronic 2, H411	
2,6-Diaminopyridine	EINECS: 205-507-2 CAS: 141-86-6 INDEX: Not available REACH: Not available	0,10	Acute Tox. 3, H301 Acute Tox. 4, H312 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	[1]
4-Amino-2-hydroxytoluene	EC no: 220-618-6 CAS no: 2835-95-2 INDEX: Not available REACH: Not available	0,10-0,30	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]

See section 16 for the full text of the H phrases declared above.

Occupational exposure limits, if available, are listed in section 8.

Type:

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

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

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

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

Specific treatments: Eye bathing equipment should be available on the premises.

See section 11 for more detailed information on health effects and symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Do not use full power water jet.

### 5.2. Special hazards arising from the substance or mixture

Risk of explosion if heated under confinement. In a fire or if heated, a pressure increase will occur and the container may burst.

Decomposition products may include the following materials: carbon dioxide, carbon monoxide and unidentified organic and inorganic compounds.

This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterways, sewer or drain.

### 5.3. Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- 6.1.1. For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 6.1.2. For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

### 6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. Harmful to aquatic life with long lasting effects.

### 6.3. Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 6.4. Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

### 7.1. Precautions for safe handling

- Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid getting in eyes or on skin or clothing. Avoid breathing vapor or mist. Avoid ingesting. Avoid relies to environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residues and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store between +5 °C and +25 °C. Keep away from heat and

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

sources of ignition. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

No specific recommendation.

Do not store above the following temperature:

## 7.3. Specific end use(s)

Recommendations: Customer use.

Industrial sector specific solutions: Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

### 8.1. Control parameters

Occupational exposure limits

Limit values are laid down throughout the EU, but each Member State establishes its own national OELs, often going beyond EU legislation ((IOELV). OELs are set by competent national authorities and other relevant institutions

#### EU: Indicative Occupational Exposure Limit Value (IOELV):

Substance name	Limit value 8 hours		Limit value short term	
	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
Values not established	-	-	-	-

#### Latvia (AER, reg.325/2011):

Substance name	Limit value 8 hours		Limit value short term (15 min)	
	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
p-Phenylene-diamine	0,05	-	-	-
m-Aminophenol	1	-	-	-

#### United Kingdom EH40/2005

Substance name	Limit value 8 hours		Limit value short term (15 min)	
	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
p-Phenylene-diamine	0.1	-	-	-
m-Aminophenol	-	-	-	-

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

### 8.2. Exposure controls

Appropriate engineering controls:

Use with adequate ventilation.

#### Individual protection measures:



Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection:

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## **Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Appearance	
Physical state	Creamy mass.
Colour	Beige.
Odour	Floral.
Odour threshold	Not applicable.
pH	8.0 (10%)
Mass fraction of Hydrogen peroxide, %	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

### **9.2. Other information**

Not available.

## **SECTION 10: Stability and reactivity**

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

## 10.1. Reactivity

Not available.

## 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

## 10.5. Incompatible materials

Reactive or incompatible materials not known.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity estimate (ATE): Product is not classified.

Acute toxicity of ingredients:

Dimethylamino Methylpropanol	LD50 (Oral) LD50 (Dermal)	Rat Rat	1656 mg/kg bw > 2000 mg/kg bw	
Toluene-2,5-Diamine Sulfate	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rat Rabbit Rat	102 mg/kg bw > 5000 mg/kg bw 0.99 mg/L air	
Cetareth-20	LD50 (Oral) LD50 (Dermal)	Rat Rat	> 10000 mg/kg bw > 2000 mg/kg bw	
p-Phenylenediamine	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rat Rabbit Rat	75 mg/kg 5000 mg/kg bw 0.92 mg/L	4h
Cocamidopropylamine oxide	LD50 (Oral) LD50 (Dermal)	Rat Rat	500-1000 mg/kg >2000 mg/kg	
Disodium EDTA	LD50 (Oral) LC50 (Inhal.)	Rat Rat	2800 mg/kg bw 1000mg/m <sup>3</sup>	6h
4-Amino-m-Cresol	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rat Rat Rat	908 mg/kg bw 2409 mg/kg bw 12.24 mg/L air	4h
m-Aminophenol	LD50 (Oral) LD50 (Dermal) LC0 (Inhal.)	Rat Rabbit Rat	>2000 mg/kg bw. 8 112 mg/kg bw 1162 mg/m <sup>3</sup>	
4-Amino-2-Hydroxytoluene	LD50 (Oral) LD50 (Dermal) LC50 (Inhal.)	Rat Rat Rat	3600 mg/kg bw 5688 mg/kg 42.57 mg/L air	4h

### Irritation/ Corrosion:

Product is not classified.

Dimethylamino Methylpropanol	Skin Irrit. 2, H315. Based on the ECHA data base Eye Damage 1, H318. Based on the ECHA data base
Toluene-2,5-Diamine Sulfate	Skin:slightly irritating. Based on the ECHA data base. Eye: Not irritating.
Cetareth-20	Skin: Not irritating. Eye Damage 1, H318. Based on the ECHA data base.
p-Phenylenediamine	Skin: Not irritating Eye Irrit. 2, H319. Based on the ECHA data base.
Cocamidopropylamine oxide	Skin Irrit. 2, H315. Based on the ECHA data base. Eye Damage 1, H318. Based on the ECHA data base
Disodium EDTA	Skin: Not irritating. Eye: Not irritating.
4-Amino-m-Cresol	Skin: Not irritating. Eye: Not irritating.



# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

m-Aminophenol	Skin: Not irritating. Eye: Not irritating.
4-Amino-2-hydroxytoluene	Skin: Not irritating. Eye: transient irritation. Based on the ECHA data base

**Sensitisation:** **Product is not classified.**

Dimethylamino Methylpropanol	Skin: Not sensitising. Respiratory: No known effect according to our database.
Toluene-2,5-Diamine Sulfate	Skin Sens. 1, H317. Based on the ECHA data base. Respiratory: No known effect according to our database.
Ceteareth-20	Skin: Not sensitising. Respiratory: No known effect according to our database.
p-Phenylenediamine	Skin Sens. 1, H317. Based on the ECHA data base. Respiratory: No known effect according to our database.
Cocamidopropylamine oxide	Skin: Not sensitising. Respiratory: No known effect according to our database.
Disodium EDTA	Skin: Not sensitising. Respiratory: No known effect according to our database.
4-Amino-m-Cresol	Skin Sens. 1A, H317. Based on the ECHA data base. Respiratory: No known effect according to our database.
m-Aminophenol	Skin: sensitising. Based on the ECHA data base. Respiratory: No known effect according to our database.
4-Amino-2-hydroxytoluene	Skin: Skin Sens. 1, H317. Based on the ECHA data base Respiratory: No known effect according to our database.

**Repeated dose toxicity:** **Product is not classified.**

	No known effect according to our database.
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**Carcinogenicity:** **Product is not classified.**

	No known effect according to our database.
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**Mutagenicity:** **Product is not classified.**

	No known effect according to our database.
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**Toxicity for reproduction:** **Product is not classified.**

	No known effect according to our database.
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**Specific target organ toxicity. Single / repeated exposure: Product is not classified.**

	No known effect according to our database.
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**Aspiration hazard** **Product is not classified.**

	No known effect according to our database.
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## Potential acute health effects

Inhalation:	No known significant effects or critical hazards.
Skin contact:	May cause allergic skin reaction and irritation.
Eye contact:	May cause slight eye irritation.
Ingestion:	No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No known significant effects or critical hazards.
Skin contact:	Adverse symptoms may include the following: irritation, redness.
Eye contact:	Adverse symptoms may include the following: irritation, watering, redness.
Ingestion:	No known significant effects or critical hazards.

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure:

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

### Long term exposure:

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

### Potential chronic health effects:

Conclusion/Summary	Not available.
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

## 11.2. Other information

Not available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product is not classified.

Toluene-2,5-Diamine Sulfate	Short-term toxicity to fish: LC50, 4d: 1.08 mg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 820 - 6 770 µg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 276 - 630 µg/L Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 310 - 8 000 µg. Toxicity to microorganisms: EC50, 3 h: 17.7 mg/L.
p-Phenylenediamine	Short-term toxicity to fish: LC50, 4 d: 100 - 3 900 µg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 150 - 496 µg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 5.01 - 12 500 µg/L. Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 2.1 - 2.8 mg/L. Toxicity to microorganisms: EC50, 3 h: 13.4 mg/L.
4-Amino-m-Cresol	Short-term toxicity to fish: LC50, 4d: 400 µg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 200 µg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 220 µg/L. Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 11 - 35 µg/L. Toxicity to microorganisms: EC50, 3 h: 32.3 mg/L.
Resorcinol	Short-term toxicity to fish: LC50, 4d: 26.8 - 29.5 mg/L. Long-term toxicity to fish: EC50, 60d: 260 mg/L. Short-term toxicity to aquatic invertebrates: EC50, 24 h: 4.7 mg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 172 µg/L. Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 97 mg/L. Toxicity to microorganisms: EC50, 3 h: 79 mg/L.
4-Amino-2-Hydroxytoluene	Short-term toxicity to fish: LC50, 4 d: 25 mg/L. Short-term toxicity to aquatic invertebrates: EC50, 48 h: 2.3 mg/L. Long-term toxicity to aquatic invertebrates: NOEC, 21 d: 240 µg/L. Toxicity to aquatic algae and cyanobacteria: EC50, 72 h: 17 - 41 mg/L. Toxicity to microorganisms: EC50, 3 h: 17.26 - 150 mg/L.

### 12.2. Persistence and degradability

Toluene-2,5-Diamine Sulfate	Inherently biodegradable.
p-Phenylenediamine	The substance is neither readily nor inherently biodegradable.
4-Amino-m-Cresol	Not readily biodegradable.
m-Aminophenol	No biodegradation observed. Test OECD Guideline 301 F
4-Amino-2-Hydroxytoluene	Not readily biodegradable.

### 12.3. Bioaccumulative potential

Toluene-2,5-Diamine Sulfate	log Kow < 3.0.
p-Phenylenediamine	Not available.
4-Amino-m-Cresol	Not available.
m-Aminophenol	BCF= 40 L/kg
4-Amino-2-Hydroxytoluene	Not available.

### 12.4. Mobility in soil

Toluene-2,5-Diamine Sulfate	Not available.
p-Phenylenediamine	Not available.
4-Amino-m-Cresol	Not available.
m-Aminophenol	The half-life period of test chemical in soil is estimated to be 30 days (720 hrs)
4-Amino-2-Hydroxytoluene	Not available.

### 12.5. Results of PBT and vPvB assessment

	Product (and ingredients) does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).
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### 12.6. Other adverse effects

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

	No known significant effects or critical hazards.
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## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

### 13.1. Waste treatment methods

#### Product:

Methods of disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: Within the present knowledge of the supplier, this product is regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC): 20 01 99 -Other fractions not otherwise specified

#### Packaging:

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Can be added to general waste collection after completely emptying. Incineration or landfill should only be considered when recycling is not feasible.

Within the present knowledge of the supplier, packaging is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC): Container: 20 01 39 –plastics/

## SECTION 14: Transport information

This preparation is classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

### International transport regulations:

14.1. UN number This product does not require a classification for transport.

14.2. UN proper shipping name This product does not require a classification for transport.

14.3. Transport hazard class(es) This product does not require a classification for transport.

14.4. Packing group This product does not require a classification for transport.

14.5. Environmental hazards This product does not require a classification for transport.

14.6. Special precautions for user This product does not require a classification for transport.

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

## SECTION 15: Regulatory information

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

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

ADR - the European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded at Geneva on 30 September 1957, as amended.

RID - the Regulations concerning the International Carriage of Dangerous Goods by Rail, appearing as Appendix C to the Convention concerning International Carriage by Rail (COTIF) concluded at Vilnius on 3 June 1999, as amended.

ADN - the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways concluded at Geneva on 26 May 2000, as amended.

IMDG Code - International Maritime Dangerous Goods Code.

IATA/ICAO: ICAO - International Civil Aviation Organization. IATA - International Air Transport Association.

MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

Annex XIV - List of substances subject to authorization: Substances of very high concern: None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on Not applicable.

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

the market and use of certain dangerous substances,  
mixtures and articles:

## 15.2. Chemical safety assessment

Chemical Safety Assessment following regulation  
1907/2006/EC:

Has not been done for the product.

## SECTION 16: Other information

### Abbreviations and acronyms:

Full text of abbreviations

CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]  
ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
RID: International Rule for Transport of Dangerous Substances by Railway  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
CAS: Chemical Abstracts Service  
EINECS: European Inventory of Existing Commercial chemical Substances  
LC50: Median lethal concentration  
LD50: Median lethal dose  
REACH: Registration, Evaluation and Authorisation of Chemicals  
PBT: Persistent, bio-accumulative and toxic  
vPvB: Very persistent, very bio-accumulative

Full text of classifications and  
H statements  
[CLP/GHS]:

Oxid. Liquid 1, Oxidizing Liquid, Hazard Category 1  
H271 May cause fire or explosion; strong oxidizer  
Skin Corr. 1A, Skin corrosion, Category 1A  
H314 Causes severe skin burns and eye damage  
Eye Damage 1, Serious eye damage, Category 1  
H318: Causes serious eye damage  
Acute Tox.3, Acute toxicity, Category 3  
H301: Toxic if swallowed.  
H311: Toxic in contact with skin.  
H331: Toxic if inhaled.  
Acute Tox. 4, Acute toxicity (oral), Category 4  
H332 Harmful if inhaled  
H302 Harmful if swallowed  
H312 Harmful in contact with skin  
Repr. 2, Reproductive toxicity, Category 2  
H361 Suspected of damaging fertility or the unborn child  
Skin Irrit. 2, Skin corrosion/irritation, Hazard Category 2;  
H315 Causes skin irritation.  
Eye Irrit. 2, Serious eye damage/eye irritation, Hazard Category 2;  
H319 Causes serious eye irritation.  
Aquatic Acute 1, Short-term (acute) aquatic hazard - Acute Hazard, Category 1.  
H400 Very toxic to aquatic life.  
Aquatic Chronic 1, Long-term (chronic) aquatic hazard, Category 1;  
H410 Very toxic to aquatic life with long lasting effects.  
Aquatic Chronic 3, Long-term (chronic) aquatic hazard, Category 3;  
H412 Harmful to aquatic life with long lasting effects  
STOT SE 3, Specific target organ toxicity — single exposure;  
H336 May cause drowsiness or dizziness.  
STOT SE 3, Specific target organ toxicity — single exposure;  
H335 May cause respiratory irritation.

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

Version	1.0
Date of revision	25/06/2020

**Training advice:** In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

**Key literature sources:** ECHA Database.

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**END OF SAFETY DATA SHEET**