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Trade name: Flarosol Duo

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

- **1.1 Product identifier**
- **Trade name:** Flarosol Duo
- **Article number:** 20530510
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Textile auxiliary

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:**
sulfosuccinate sodium salt
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
- **Precautionary statements**
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of 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.
- **2.3 Other hazards** Not applicable
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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DUV

- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

alcohols ethoxylated	⚠ Eye Irrit. 2, H319	10-25%
sulfosuccinate sodium salt	⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	10-25%
hydrocarbons	⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 4, H413	2.5-10%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
Use fire extinguishing methods suitable to surrounding conditions.
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Sulphur dioxide (SO₂)
- 5.3 Advice for firefighters
- Protective equipment:
Wear fully protective suit.
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
In case of seepage into the ground inform responsible authorities.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Pay attention to the usual precautionary measures for handling chemicals.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

7.2 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: None.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs

Dipropylene glycol monomethyl ether

Dermal Long-term - systemic effects, worker 283 mg/kg bw/day (.)

Inhalative Long-term - systemic effects, worker 310 mg/m³ (.)

sulfosuccinate sodium salt

Dermal Long-term - systemic effects, worker 31.3 mg/kg bw/day (.)

Inhalative Long-term - systemic effects, worker 44.1 mg/m³ (.)

- DNEL (Derived No Effect Level) for the general population

Dipropylene glycol monomethyl ether

Oral Long-term - systemic effects, general population 36 mg/kg bw/day (.)

Dermal Long term - systemic effects, general population 121 mg/kg bw/day (.)

Inhalative Long-term - systemic effects, general population 37.2 mg/m³ (.)

sulfosuccinate sodium salt

Oral Long-term - systemic effects, general population 18.8 mg/kg bw/day (.)

Dermal Long term - systemic effects, general population 18.8 mg/kg bw/day (.)

Inhalative Long-term - systemic effects, general population 13 mg/m³ (.)

- PNECs

Dipropylene glycol monomethyl ether

Aquatic compartment - freshwater 19 mg/L (.)

Aquatic compartment - marine water 1.9 mg/L (.)

Aquatic compartment - water, intermittent releases 190 mg/L (.)

Aquatic compartment - sediment in freshwater 70.2 mg/kg sed dw (.)

Aquatic compartment - sediment in marine water 7.02 mg/kg sed dw (.)

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Terrestrial compartment - soil	2.74 mg/kg dw (.)
Sewage treatment plant	4,168 mg/l (.)
sulfosuccinate sodium salt	
Aquatic compartment - freshwater	0.0066 mg/L (.)
Aquatic compartment - marine water	0.00066 mg/L (.)
Aquatic compartment - water, intermittent releases	0.066 mg/L (.)
Aquatic compartment - sediment in freshwater	0.653 mg/kg sed dw (.)
Aquatic compartment - sediment in marine water	0.0653 mg/kg sed dw (.)
Terrestrial compartment - soil	0.138 mg/kg dw (.)
Sewage treatment plant	122 mg/l (.)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

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

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

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Light yellow

· **Odour:** Characteristic

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 100 °C

· **Flash point:** 63 °C

· **Ignition temperature:** 150 °C

· **Auto-ignition temperature:** Product is not selfigniting.

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mv

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- Explosive properties:	<i>Product does not present an explosion hazard.</i>
- Vapour pressure at 20 °C:	23 hPa
- Density at 20 °C:	0.9803 g/cm ³
- Solubility in / Miscibility with water:	<i>Fully miscible.</i>
- 9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*

- **LD/LC50 values relevant for classification:**

Dipropylene glycol monomethyl ether		
Oral	LD50	5,135 mg/kg (rat)
Dermal	LD50	>19,000 mg/kg (rabbit)
Inhalative	LC50/4 h	9,500 mg/kg (rat) 55-60 mg/l (rat)
alcohols ethoxylated		
Oral	LD50	>2,000-5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Irritation of skin	OECD 404	reizend (rabbit)
sulfosuccinate sodium salt		
Oral	LD50	>3,000 mg/kg (rat)
	NOAEL	1,074 mg/kg bw/day (rat)
	NOAEL (STOT oral)	750 mg/kg bw/day (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
	NOAEL (Carcinogenicity)	500 mg/kg bw/day (rat)
	NOAEL (effects on fertility OECD 416)	750 mg/kg bw/day (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
- **Carcinogenicity** *Based on available data, the classification criteria are not met.*
- **Reproductive toxicity** *Based on available data, the classification criteria are not met.*

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- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Dipropylene glycol monomethyl ether

NOEC	>0.5 mg/l /22 d (<i>Daphnia magna</i>) 250,000 mg/l (.)
LC50/48h	2,070 mg/l (<i>Acartia Tonsa</i>)
LC50/EC50/IC50	>100 mg/l (water organisms)
LC 50/48h	1,919 mg/l (<i>Daphnia magna</i>)
EC10/18h	4.168 g/l (<i>pseudomonas putida</i>)
LC50/96 h	>1,000 mg/l (<i>Crangon crangon</i>) >10,000 mg/l (<i>pimephales promelas</i>) >1,000 mg/l (<i>Poecilia reticulata</i>)
EC50/96h	>969 mg/l (<i>Pseudokirchneriella subcapitata</i>)
EC50	500,000 mg/l (<i>Terrestrische Pflanzen</i>)
LOEC	>0.5 mg/l /22 d (<i>Daphnia magna</i>)
EC 50/48h	1,919 mg/l (<i>Daphnia magna</i>)

alcohols ethoxylated

EC50/72h	10-100 mg/l (aquatic plants)
EC 10	>2,000 mg/l (activated sludge)
LC50/96 h	10-100 mg/l (<i>Onchorrhynchus mykiss</i>)
EC50/48 h	10-100 mg/l (aquatic invertebrates)

sulfosuccinate sodium salt

ErC50	82.5 mg/l (algae)
LC50/48h	49 mg/l (fish)
EC 50/24h	24.8 mg/l (aquatic invertebrates)
LC50/24h	49 mg/l (fish)
EC 50/16h	164 mg/l (.)
EC10/16h	122 mg/l (.)
LC50/96 h	49 mg/l (<i>Brachydanio rerio</i>)
EC50/96h	19,000 mg/l (<i>Scenedesmus quadricauda</i>)
EC50/48 h	6.6 mg/l (aquatic invertebrates)
EC10/72h	22 mg/l (<i>Desmodesmus subspicatus</i>)

12.2 Persistence and degradability

Dipropylene glycol monomethyl ether

OECD 301F/28d	75 % (.)
log p _{OW}	0.006 (.)
OECD 301 F	96 % (.)
OECD 302 B	94 % (activated sludge) (13d)
pOC	0-50 (.)
BCF	<100 (.)

alcohols ethoxylated	
CSB	2,300 g O ₂ /g (.)
OECD 301 E	≥90 % (.)
OECD 301 B	>60 % (28 d)
sulfosuccinate sodium salt	
DOC	91.2 % (.)
log K _{ow}	1.998 (.)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	10-25

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

· Abbreviations and acronyms:

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· * Data compared to the previous version altered.