

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**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Bussetti & Co Ges.m.b.H.
Rötzergerg. 57
1170 Wien**Further information obtainable from:** Labor**1.4 Emergency telephone number:**

business day:

Mo - Th: 9:00 - 16:00

Mr. Herbert Fischer

Fr: 9:00 - 13:00

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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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 · **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).

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- 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/m ³ (.)

sulfosuccinate sodium salt

Dermal	Long-term - systemic effects, worker	31.3 mg/kg bw/day (.)
Inhalative	Long-term - systemic effects, worker	44.1 mg/m ³ (.)

· 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/m ³ (.)

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/m ³ (.)

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

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)
		9,500 mg/kg (rat)
Inhalative	LC50/4 h	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 pOW	0.006 (.)
OECD 301 F	96 % (.)
OECD 302 B	94 % (activated sludge) (13d)
pOC	0-50 (.)
BCF	<100 (.)

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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

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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.**