



Derwent Graphik Line Maker Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 23/05/2014

Revision date: 23/05/2014

Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Product name : Derwent Graphik Line Maker
Product code : 2302206, 2302207, 2302194, 2302195, 2302196, 2302197, 2302198, 2302199, 2302209, 2302205, 2302208, 2302200, 2302201, 2302202

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

1.2.1. Relevant identified uses

Main use category : Consumer use, Professional use
Use of the substance/mixture : Line maker pens

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Acco UK Ltd.
Oxford House, Oxford Road,
Aylesbury, Bucks,
HP21 8SZ.

Telephone: +44 (0) 844 209 8360 (9am to 5pm)
Fax: +44 (0) 845 603 1731
Website: www.acco.co.uk
Email: informationeurope@acco.com

1.4. Emergency telephone number

Emergency number : 0844 2098360

| Country | Organisation/Company | Address | Emergency number |
|-----------------------|--|---|--|
| IRELAND (REPUBLIC OF) | National Poisons Information Centre Beaumont Hospital | Beaumont Hospital Beaumont Road 9 Dublin | : +353 1 8379964 |
| UNITED KINGDOM | National Poisons Information Service (NHS Direct) | | 0845 4647 or 111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|--|---|--------|--|
| carbon black substance with national workplace exposure limit(s) (BE, FR, GB, IT, PT) | (CAS No) 1333-86-4 (EC no) 215-609-9 | 0 - 25 | Not classified |



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| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|--|---|---------|--|
| glycerol substance with national workplace exposure limit(s) (BE, FR, GB) | (CAS No) 56-81-5 (EC no) 200-289-5 | 15 - 25 | Not classified |
| polyvinylpyrrolidone substance with national workplace exposure limit(s) (BE, DE, FR, GB, IT, PT) | (CAS No) 9003-39-8 (EC no) 201-800-4 | 1 - 3 | Not classified |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
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| carbon black substance with national workplace exposure limit(s) (BE, FR, GB, IT, PT) | (CAS No) 1333-86-4 (EC no) 215-609-9 | 0 - 25 | Not classified |
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Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.
 Incompatible products : Strong bases. Strong acids.
 Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| glycerol (56-81-5) | | |
|--------------------|----------------------------------|----------------------|
| Belgium | Limit value (mg/m ³) | 10 mg/m ³ |
| France | VME (mg/m ³) | 10 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ |

| polyvinylpyrrolidone (9003-39-8) | | |
|----------------------------------|---|----------------------|
| Belgium | Limit value (mg/m ³) | 3 mg/m ³ |
| France | VME (mg/m ³) | 10 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 3 A/10 E |
| Italy - Portugal - USA ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 4 mg/m ³ |

| carbon black (1333-86-4) | | |
|------------------------------|----------------------------------|-----------------------|
| Belgium | Limit value (mg/m ³) | 3,5 mg/m ³ |
| France | VME (mg/m ³) | 3,5 mg/m ³ |
| Italy - Portugal - USA ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 3,5 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 7 mg/m ³ |

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.
 Personal protective equipment : Protective goggles. Gloves.



Hand protection : Wear protective gloves.
 Eye protection : Chemical goggles or safety glasses.
 Respiratory protection : Wear appropriate mask.
 Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
 Colour : According to product specification.
 Odour : characteristic.
 Odour threshold : No data available
 pH : 6 - 7
 Relative evaporation rate (butylacetate=1) : No data available



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| | |
|----------------------------------|---------------------|
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 100 °C |
| Flash point | : No data available |
| Self ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : Soluble in water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 5 mPa.s |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

glycerol (56-81-5)

| | |
|--------------------|------------------------|
| LD50 oral rat | 12600 mg/kg (Rat) |
| LD50 dermal rabbit | > 10000 mg/kg (Rabbit) |

polyvinylpyrrolidone (9003-39-8)

| | |
|-----------------|---------------------|
| LD50 oral rat | 100000 mg/kg (Rat) |
| LD50 dermal rat | > 12000 mg/kg (Rat) |

carbon black (1333-86-4)

| | |
|--------------------|-----------------------|
| LD50 oral rat | > 15400 mg/kg (Rat) |
| LD50 dermal rabbit | > 3000 mg/kg (Rabbit) |

Skin corrosion/irritation : Not classified
Based on available data, the classification criteria are not met
pH: 6 - 7



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| | |
|---|---|
| Serious eye damage/irritation | : Not classified Based on available data, the classification criteria are not met pH: 6 - 7 |
| Respiratory or skin sensitisation | : Not classified Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity (repeated exposure) | : Not classified Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

SECTION 12: Ecological information

12.1. Toxicity

| glycerol (56-81-5) | |
|---|--|
| LC50 fishes 1 | 54000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| LC50 other aquatic organisms 1 | > 1000 mg/l (96 h) |
| EC50 Daphnia 1 | > 10000 mg/l (24 h; Daphnia magna; Locomotor effect) |
| LC50 fish 2 | > 1000 mg/l (96 h; Pisces) |
| TLM fish 1 | > 1000 ppm (96 h; Pisces) |
| TLM other aquatic organisms 1 | > 1000 ppm (96 h) |
| Threshold limit other aquatic organisms 1 | > 1000 mg/l (96 h) |
| Threshold limit algae 1 | > 10000 mg/l (168 h; Scenedesmus quadricauda; Toxicity test) |

| polyvinylpyrrolidone (9003-39-8) | |
|----------------------------------|-------------------------------------|
| LC50 fishes 1 | > 10000 mg/l (96 h; Leuciscus idus) |

| carbon black (1333-86-4) | |
|--------------------------|---------------------------------------|
| LC50 fishes 1 | > 1000 mg/l (96 h; Brachydanio rerio) |
| EC50 Daphnia 1 | > 5600 mg/l (24 h; Daphnia magna) |

12.2. Persistence and degradability

| Derwent Graphik Line Maker | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| glycerol (56-81-5) | |
|---------------------------------|-------------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0,87 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1,16 g O ₂ /g substance |
| ThOD | 1,217 g O ₂ /g substance |
| BOD (% of ThOD) | 0,71 % ThOD |

| polyvinylpyrrolidone (9003-39-8) | |
|----------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

| carbon black (1333-86-4) | |
|---------------------------------|--|
| Persistence and degradability | Biodegradability: Not applicable. Biodegradability in soil: Not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |



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| carbon black (1333-86-4) | |
|--------------------------|----------------|
| BOD (% of ThOD) | Not applicable |

12.3. Bioaccumulative potential

| Derwent Graphik Line Maker | |
|----------------------------|------------------|
| Bioaccumulative potential | Not established. |

| glycerol (56-81-5) | |
|---------------------------|----------------------------------|
| Log Pow | -1,76 - 2,6 |
| Bioaccumulative potential | Bioaccumulation: Not applicable. |

| polyvinylpyrrolidone (9003-39-8) | |
|----------------------------------|-------------------------------------|
| Bioaccumulative potential | Bioaccumulation: No data available. |

| carbon black (1333-86-4) | |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

| glycerol (56-81-5) | |
|--------------------|-----------|
| Surface tension | 0,063 N/m |

| carbon black (1333-86-4) | |
|--------------------------|--|
| Ecology - soil | Not toxic to plants. Not toxic to animals. |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not dangerous goods in terms of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable



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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

Water hazard class (WGK) : 1 - slightly hazardous to water

WGK remark : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

SDS EU ACCO

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product