

Safety data sheet
according to 1907/2006/EC, Article 31




Printing date 14.03.2011

Revision: 14.03.2011

* **1 Identification of the substance/mixture and of the company/undertaking**

- . **Product identifier**
- . **Trade name** OMEGA 1 INK - BLACK
- . **Relevant identified uses of the substance or mixture and uses advised against**
- . **Application of the substance / the preparation** Printing inks
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
Durst Phototechnik
Julius-Durst-Str. 11
A-9900 Lienz, Austria
Tel. +43 4852 71 777
- . **Informing department:** office@durst-online.at
- . **Emergency telephone number:** Tel. +43 4852 71 777

2 Hazards identification

- . **Classification of the substance or mixture**
 - . **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xi; Irritant
R36/38: Irritating to eyes and skin.
 - .  Xi; Sensitising
R43: May cause sensitisation by skin contact.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - . **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - . **Classification system:**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
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- . **Label elements**
 - . **Labelling according to EU guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
 - . **Code letter and hazard designation of product:**
 Xi Irritant
 - . **Hazard-determining components of labelling:**
2,2-bis(acryloyloxymethyl)butyl acrylate
 - . **Risk phrases:**
36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - . **Safety phrases:**
23 Do not breathe fumes/aerosol.
24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37 Wear suitable gloves.
60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
 - . **Other hazards**
 - . **Results of PBT and vPvB assessment**
 - . **PBT:** Not applicable.

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. **vPvB:** Not applicable.**3 Composition/information on ingredients**

- . **Chemical characterization: Mixtures**
- . **Description:** Mixture consisting of the following components with harmless additives.

. **Dangerous components:**

	acrylates Xi R36/38 ----- GHS07 Skin Irrit. 2, H315; Eye Irrit. 2, H319	25-50 %
CAS: 2235-00-9 EINECS: 218-787-6	1-vinylhexahydro-2H-azepin-2-one Xn R22; Xi R36 ----- GHS07 Acute Tox. 4, H302; Eye Irrit. 2, H319	10-25%
CAS: 84100-23-2 EINECS: 282-104-8	4-(1,1-dimethylethyl)cyclohexyl acrylate Xi R36/37/38; N R51/53 ----- GHS09 Aquatic Chronic 2, H411; GHS07 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%
CAS: 75980-60-8 EINECS: 278-355-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphinoxid Xn R62; N R51/53 ----- GHS08 Repr. 2, H361; GHS09 Aquatic Chronic 2, H411	2.5-10%
CAS: 1333-86-4 EINECS: 215-609-9	carbon black ----- GHS02 Self-heat. 1, H251	< 2.5%
CAS: 15625-89-5 EINECS: 239-701-3 Index number: 607-111-00-9	2,2-bis(acryloyloxymethyl)butyl acrylate Xi R36/38; Xi R43 ----- GHS07 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 2.5%
CAS: 13048-33-4 EINECS: 235-921-9 Index number: 607-109-00-8	hexamethylene diacrylate Xi R36/38; Xi R43 ----- GHS07 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 1.0%
CAS: 42978-66-5 EINECS: 256-032-2 Index number: 607-249-00-X	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate Xi R36/37/38; Xi R43; N R51/53 ----- GHS09 Aquatic Chronic 2, H411; GHS07 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	< 1.0%

. **Additional information** For the wording of the listed risk phrases refer to section 16.**4 First aid measures**

- . **Description of first aid measures**
- . **After inhalation**
Supply fresh air and call for doctor for safety reasons.
In case of unconsciousness bring patient into stable side position for transport.
- . **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- . **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- . **After swallowing** Do not induce vomiting; instantly call for medical help.
- . **Information for doctor**
- . **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- . **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- . **Extinguishing media**
- . **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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- . **Special hazards arising from the substance or mixture**
No further relevant information available.
- . **Advice for firefighters**
- . **Protective equipment:** No special measures required.

6 Accidental release measures

- . **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
- . **Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
- . **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- . **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 information on disposal.

7 Handling and storage

- . **Handling**
- . **Precautions for safe handling**
Keep containers tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- . **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

- . **Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** Keep container tightly sealed.
- . **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **Control parameters**

- . **Components with critical values that require monitoring at the workplace:**

1333-86-4 carbon black

WEL (Great Britain)	Short-term value: 7 mg/m ³ Long-term value: 3.5 mg/m ³
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- . **Additional information:**
The lists that were valid during the compilation were used as basis.
- . **Exposure controls**
- . **Personal protective equipment**
- . **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

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. Breathing equipment:

Use breathing protection in case of insufficient ventilation.

. Protection of hands:

Protective gloves.

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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:

Safety glasses

. Body protection: Protective work clothing.

9 Physical and chemical properties

. Information on basic physical and chemical properties**. General Information****. Appearance:**

Form: Fluid
Colour: According to product specification

. Smell: Characteristic

. Odour threshold: Not determined.

. pH-value: Not determined.

. Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

. Flash point: Not applicable

. Ignition temperature:

Decomposition temperature: Not determined.

. Self-inflammability: Product is not selfigniting.

. Danger of explosion: Product is not explosive.

. Critical values for explosion:

Lower: Not determined.

Upper: Not determined.

. Steam pressure: Not determined.

. Density

Relative density Not determined.

Vapour density Not determined.

Evaporation rate Not determined.

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- . **Solubility in / Miscibility with Water:** Not miscible or difficult to mix
- . **Segregation coefficient (n-octanol/water):** Not determined.
- . **Viscosity:**
 - dynamic: Not determined.
 - kinematic: Not determined.
- . **Other information** No further relevant information available.

10 Stability and reactivity

- . **Reactivity**
- . **Chemical stability**
- . **Conditions to be avoided:** No decomposition if used according to specifications.
- . **Possibility of hazardous reactions** No dangerous reactions known
- . **Conditions to avoid** No further relevant information available.
- . **Incompatible materials:** No further relevant information available.
- . **Hazardous decomposition products:** In case of fire: CO₂, CO, NO_x

11 Toxicological information

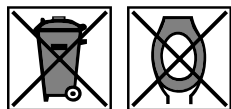
- . **Information on toxicological effects**
- . **Acute toxicity:**
- . **Primary irritant effect:**
 - on the skin: Irritant for skin and mucous membranes.
 - on the eye: Irritant effect.
- . **Sensitization:** Sensitization possible by skin contact.
- . **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- . **Toxicity**
- . **Acquatic toxicity:** No further relevant information available.
- . **Persistence and degradability** No further relevant information available.
- . **Behaviour in environmental systems:**
- . **Bioaccumulative potential** No further relevant information available.
- . **Mobility in soil** No further relevant information available.
- . **Ecotoxicological effects:**
- . **Remark:** Harmful to fish
- . **Additional ecological information:**
- . **General notes:** Harmful to aquatic organisms
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **Other adverse effects** No further relevant information available.

13 Disposal considerations

- . **Waste treatment methods**
- . **Recommendation**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- . **European waste catalogue**

08 03 12*	waste ink containing dangerous substances
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- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

* **14 Transport information**

- . **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- . **ADR/RID-GGVS/E Class:** not classified
- . **Maritime transport IMDG/GGVSea:**
- . **IMDG/GGVSea Class:** not classified
- . **Marine pollutant:** No
- . **Air transport ICAO-TI and IATA-DGR:**
- . **ICAO/IATA Class:** not classified
- . **Special precautions for user** Not applicable.
- . **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.

* **15 Regulatory information**

- . **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **National regulations**
- . **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
- . **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- . **Relevant phrases**
- H251 Self-heating: may catch fire.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H411 Toxic to aquatic life with long lasting effects.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitisation by skin contact.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility.
- . *** Data compared to the previous version altered.**

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