

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

Printing date 17.01.2013

Version number 1

Revision: 17.01.2013




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

- **Product identifier**
- **Trade name:** Black/Atrium Medical
- **Article number:** Series 569-33/258
- **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:**

DECO TECHNOLOGY Group Inc.
PRINTCOLOR SCREEN LTD.
TEL (714) 639-3326
FAX (714) 639-2261



- **Further information obtainable from:** Product safety department
- **Emergency telephone number:** Tel: (800) 535-5053

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.
 -  N; Dangerous for the environment
R51/53: Toxic 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 according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
 -  Xi Irritant
 -  N Dangerous for the environment
- **Hazard-determining components of labelling:**

hexamethylene diacrylate
2-hydroxy-2-methylpropiophenone
- **Risk phrases:**

36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.

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51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

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.

57 Use appropriate container to avoid environmental contamination.

60 This material and its container must be disposed of as hazardous waste.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 13048-33-4 EINECS: 235-921-9	hexamethylene diacrylate ☒ Xi R36/38; ☒ Xi R43	25-50%
CAS: 96-48-0 EINECS: 202-509-5	gamma-butyrolactone ☒ Xn R22; ☒ Xi R36	2.5-10%
ELINCS: 402-990-3	Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone] ☒ Xn R62	2.5-10%
CAS: 7473-98-5 EINECS: 231-272-0	2-hydroxy-2-methylpropiophenone ☒ Xn R22 R52/53	1-2.5%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black substance with a Community workplace exposure limit	1-2.5%
CAS: 75980-60-8	2,4,6-Trimethylbenzoyldiphenylphosphin oxide ☒ Xn R62 R52/53	1-2.5%
CAS: 954-16-5 ELINCS: 403-150-9	2,4,6-trimethylbenzophenone ☒ Xn R22; ☒ Xi R36; ☒ N R50/53	1-2.5%
CAS: 119313-12-1 ELINCS: 404-360-3	2-benzyl-2-dimethylamino-4-morpholinobutyrophenone ☒ N R50/53	1-2.5%
CAS: 872-50-4 EINECS: 212-828-1	N-methyl-2-pyrrolidone ☒ T R61; ☒ Xi R36/38	< 1%

SVHC

872-50-4 | N-methyl-2-pyrrolidone

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 to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

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- **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:** Use fire extinguishing methods suitable to surrounding conditions.
- **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** Not required.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **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:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**

1333-86-4 Carbon black

WEL	Short-term value: 7 mg/m ³ Long-term value: 3.5 mg/m ³
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872-50-4 N-methyl-2-pyrrolidone

WEL	Short-term value: 80 mg/m ³ , 20 ppm Long-term value: 40 mg/m ³ , 10 ppm Sk
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- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
- **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:**



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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Viscous
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	107°C

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· Flash point:	111°C (Abel Pensky)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	235°C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· 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.
VOC (EC)	4.58 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / 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:** No dangerous decomposition products known.

11 Toxicological information

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

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12 Ecological information

- **Toxicity**
- **Aquatic 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:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms
 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.
- **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 together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · UN-Number · ADR, IMDG, IATA · ADN | UN3077
Void |
| <ul style="list-style-type: none"> · UN proper shipping name · ADR · ADN · IMDG · IATA | 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (2-hydroxy-2-methylpropiophenone, 2,4,6-
Trimethylbenzoyldiphenylphosphin oxide)
Void
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (2-hydroxy-2-methylpropiophenone, 2,4,6-
Trimethylbenzoyldiphenylphosphin oxide), MARINE
POLLUTANT
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (2-hydroxy-2-methylpropiophenone, 2,4,6-
Trimethylbenzoyldiphenylphosphin oxide) |

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· **Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class** 9 Miscellaneous dangerous substances and articles.
 · **Label** 9
 · **ADN/R Class:** Void

· **Packing group**

· **ADR, IMDG, IATA** III

· **Environmental hazards:** Product contains environmentally hazardous substances:
 2-hydroxy-2-methylpropiophenone

· **Marine pollutant:** Yes
 Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special marking (IATA):** Symbol (fish and tree)

· **Special precautions for user** Warning: Miscellaneous dangerous substances and articles.

· **Danger code (Kemler):** 90

· **EMS Number:** F-A,S-F

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

· **Transport/Additional information:**

· **ADR**

· **Tunnel restriction code** E

15 Regulatory information

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

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

872-50-4 | N-methyl-2-pyrrolidone

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

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.

· **Relevant phrases**

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61 May cause harm to the unborn child.

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*R62 Possible risk of impaired fertility.**· Department issuing MSDS: Product safety department**· Contact:**Richard Gähwiler**richard.gaehwiler@printcolor.ch*

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