

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Colouring concentrate

Revision date: 26.03.2018

Product code: 161-601

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Colouring concentrate

Further trade names

Article No.: 161-620-00, 161-621-00, 161-622-00, 161-623-00

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

Health services.

1.3. Details of the supplier of the safety data sheet

Company name:	DENTAURUM GmbH & Co. KG	
Street:	Turnstr. 31	
Place:	D-75228 Ispringen	
Telephone:	+49 7231 803 0	Telefax: +49 7231 803 295
e-mail:	info@dentaurum.de	
Internet:	www.dentaurum.com	

Further Information

Emergency telephone:
 07:00 - 16:15 (Mo - Do), 07:00 - 13:15 (Fr) +49 7231 803 184
 16:15 - 18:00 (Mo - Do), 13:15 - 18:00 (Fr) +49 7231 803 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:
 Flammable liquid: Flam. Liq. 2
 Skin corrosion/irritation: Skin Irrit. 2
 Respiratory or skin sensitisation: Skin Sens. 1
 Specific target organ toxicity - single exposure: STOT SE 3
 Hazard Statements:
 Highly flammable liquid and vapour.
 Causes skin irritation.
 May cause an allergic skin reaction.
 May cause respiratory irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

methyl 2-methylprop-2-enoate; methyl 2-methylpropanoate; methyl methacrylate

Signal word: Danger**Pictograms:****Hazard statements**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

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Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P243 Take action to prevent static discharges.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

none

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Methyl methacrylate.

Paint:

red: colour index S.R.111, S.R.52

green: colour index S.G. 28

blue: colour index S.B. 97

yellow: colour index S.Y. 93

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate			>90 %
	201-297-1	607-035-00-6		
	Flam. Liq. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1; H225 H335 H315 H317			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with: Water and soap. Subsequently wash off with: Polyethylene glykol 400. Remove contaminated, saturated clothing immediately. Medical treatment necessary.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

If swallowed, immediately drink: Water.

Caution if victim vomits: Risk of aspiration! Call a physician immediately.

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

Headache. drowsiness. Causes skin and eye irritation. Skin sensitisation

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

none

SECTION 5: Firefighting measures**5.1. Extinguishing media**

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Suitable extinguishing media

Water spray. Carbon dioxide (CO₂). Foam. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe vapour. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Disposal: see section 13

Safe handling: see section 7

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe vapour. Vapours are heavier than air and will spread at floor level. Provide fresh air.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep/Store only in original container. Protect against: Light. Do not store at temperatures over: 30°C

Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

7.3. Specific end use(s)

none

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe vapour.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink. Avoid contact with eyes and skin. Separate storage of work clothes.

Eye/face protection

Wear eye/face protection.

Hand protection

Recommendation:

Dermatril 740 Single-use gloves. NBR (Nitrile rubber). 0,11 mm

penetration time (maximum wearing period): 0 min.

REF 162-907-00 (7/S), REF 162-908-00 (8/M), REF 162-909-00 (9/L)

Camapren 720, CR (polychloroprenes, Chloroprene rubber). 0,65 mm

penetration time (maximum wearing period): > 10 min, KCL

Skin protection

Protective clothing

Respiratory protection

Do not breathe vapour.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	various
Odour:	like: ester

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: -48 °C

Initial boiling point and boiling range: 100,3 °C

Sublimation point: No data available

Softening point: No data available

Pour point: No data available

Flash point: 10 °C DIN 51755

Sustaining combustion: No data available

Flammability

Solid: No data available

Gas: No data available

Explosive properties

No data available

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Lower explosion limits:	2,1 vol. %
Upper explosion limits:	12,5 vol. %
Ignition temperature:	430 °C DIN 51794

Auto-ignition temperature

Solid: No data available

Gas: No data available

Decomposition temperature: No data available

Vapour pressure: 40 hPa

(at 20 °C)

Vapour pressure: No data available

Density (at 20 °C): 0,94 g/cm³

Bulk density: No data available

Water solubility: 15,9 g/L

(at 20 °C)

Solubility in other solvents

miscible with most organic solvents

Partition coefficient:	Distribution coefficient (n-octanol / water) (log P O/W): 0,7
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Viscosity / dynamic: (at 20 °C)	Brookfield 0,6 mPa·s
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Viscosity / kinematic: No data available

Flow time: No data available

Evaporation rate: No data available

Solvent separation test: No data available

Solvent content: No data available

9.2. Other information

Solid content: No data available

Relative vapour density at 20 °C (air=1): > 1

Odour threshold: 0,5 - 1,0 ppm

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with : Reducing agents. Heavy metals. Peroxides. Radical former.

In case of warming: Polymerization.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

Reducing agent. Amines. Heavy metals. Peroxides. Oxidizing agents.

10.6. Hazardous decomposition products

none

Further information

Thermal decomposition: at room temperature none

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Acute toxicity (inhalant): Rat 7093 ppm 4h

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		

Irritation and corrosivity

Irritant effect on the skin: Not an irritant. 24h

Following inhalation: Lung irritation. Coughing. shortage of breath.

Sensitising effects

May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Longterm experiments do not indicate carcinogenic effects. No experimental indications of mutagenicity in-vitro exist.

STOT-single exposure

May cause respiratory irritation.

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

Algae toxicity: EC50: 37 mg/l 8d

Bacterial toxicity: Pseudomonas putida 100 mg/l

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate					
	Acute fish toxicity	LC50 > 79 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 69 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria).

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

none

12.5. Results of PBT and vPvB assessment

No

12.6. Other adverse effects

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Send to a hazardous waste incinerator facility under observation of official regulations.

Waste disposal number of used product

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures; hazardous waste

Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	339
Tunnel restriction code:	D/E

Marine transport (IMDG)

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

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Special Provisions:	A209	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Yes.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Authorisations: SECTION 15: Regulatory information

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,9,16.

Indication of changes:

SECTION 2: Hazards identification

SECTION 4: First aid measures

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

SECTION 15: Regulatory information

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

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Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)