### **SAFETY DATA SHEETS**

## This SDS packet was issued with item: 070393363

# The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070393348 070393355 070393371 070393389 070393397 070393405 070393413 070393421 070393439 070393447 070393454 070393470 273032098 273032130 273032132 273032133 273032174 273032175 273032313 273032314 273032315 273032373

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

070393298 070393314 070393322 070393330 070393488

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Version 1

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**1** Identification

· Product identifier: 008415

- · Trade name: Optiglaze Color (Clear, Orange, Red, Olive, Pink, Grey, Blue, White, White Grey)
- *Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.*
- · Application of the substance / the mixture Auxiliary for dental technology

• Details of the supplier of the safety data sheet • Manufacturer/Supplier: GC AMERICA INC. 3737 W. 127th Street ALSIP, IL 60803 Tel. (708) 597-0900 Fax (708) 926-9100

*Emergency Telephone No. 800-424-9300* 

· Information department: Regulatory affairs

#### 2 Hazard(s) identification

#### · Classification of the substance or mixture

Flam. Liq. 2	H225	Highly flammable liquid and vapor.
Carc. 2	H351	Suspected of causing cancer.
Repr. 2	H361	Suspected of damaging fertility or the unborn child.
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



#### · Signal word Danger

Hazard-determining components of labeling: Methyl methacrylate titanium dioxide diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause respiratory irritation.

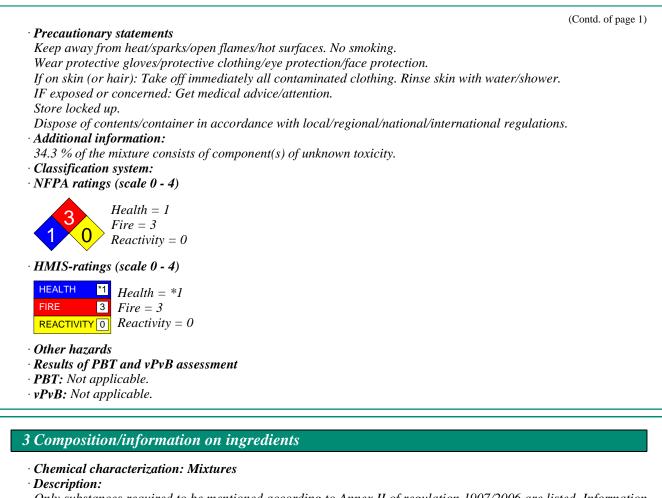
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Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

• Dangerous components:		
CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6	Methyl methacrylate	50-70%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide	1-5%
CAS: 75980-60-8 EINECS: 278-355-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	1-5%

#### 4 First-aid measures

#### • Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

If symptoms persist consult doctor.

#### • After inhalation:

Supply fresh air; consult doctor in case of complaints.

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

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#### Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- Seek medical treatment.

• After eye contact:

Rinse opened eye for several minutes under running water.

- If symptoms persist consult doctor.
- After swallowing:

*Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.* 

Most important symptoms and effects, both acute and delayed Allergic reactions

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- Protective equipment: Wear self-contained respiatory protective device.
- Additional information
- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Remove persons from danger area.
Keep away from ignition sources Avoid contact with the eyes and skin.
Wear protective clothing.
Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil. In case of seepage into the ground inform responsible authorities.
Methods and material for containment and cleaning up: Ensure adequate ventilation. Absorb liquid components with liquid-binding material. Dispose of the collected material according to regulations.

- 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

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

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Do not inhale dust / smoke / mist.	
Prevent formation of aerosols.	
Avoid contact with the eyes and skin.	
Information about protection against explosions and fires:	
Keep ignition sources away - Do not smoke.	
Protect against electrostatic charges.	
Do not spray on a naked flame or any incandescent material.	
Conditions for safe storage, including any incompatibilities	
Storage:	
Requirements to be met by storerooms and receptacles:	
Store in a cool location.	
Store only in unopened original receptacles.	
Information about storage in one common storage facility: Store away from foodstuffs.	
Further information about storage conditions:	
Keep receptacle tightly sealed.	
Store in cool, dry conditions in well sealed receptacles.	
Protect from heat and direct sunlight.	
Store in a cool place.	
Specific end use(s) No further relevant information available.	
Exposure controls/personal protection	

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

#### 80-62-6 Methyl methacrylate

PEL Long-term value: 410 mg/m<sup>3</sup>, 100 ppm

*REL* Long-term value: 410 mg/m<sup>3</sup>, 100 ppm

TLV Short-term value: 410 mg/m<sup>3</sup>, 100 ppm Long-term value: 205 mg/m<sup>3</sup>, 50 ppm (SEN) NIC-DSEN

• *Additional information:* The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

- · Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands:



Protective gloves

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• 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:

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Tightly sealed goggles

#### 9 Physical and chemical properties

Appearance:		
Form:	Fluid	
Color:	According to product specification	
Odor:	Pungent	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	101 °C (214 °F)	
Flash point:	10 °C (50 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	Undetermined.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	2.1 Vol %	
Upper:	12.5 Vol %	
Vapor pressure:	Not determined.	
<i>Density at 20 •C (68 •F):</i>	1.06 g/cm <sup>3</sup> (8.846 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Insoluble.	

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· Viscosity:	No. 1 commend	
Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
Solids content:	10.0 %	
• Other information	No further relevant information available.	

#### 10 Stability and reactivity

· Reactivity No further relevant information available.

· 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:
- · LD/LC50 values that are relevant for classification: No further relevant information available.
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
80-62-6	Methyl methacrylate	3
7631-86-9	silicon dioxide	3
13463-67-7	titanium dioxide	2B
· NTP (Nation	nal Toxicology Program)	
None of the	ingredients is listed.	
· OSHA-Ca (	Occupational Safety & Health Administration)	

None of the ingredients is listed.

#### 12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

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  Bioaccumulative potential No further relevant information available.
  Mobility in soil No further relevant information available.
  Additional ecological information:
  General notes:
  Water hazard class 3 (Self-assessment): extremely hazardous for water
  Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  Danger to drinking water if even extremely 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 of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, ADR, IMDG, IATA	UN1247
UN proper shipping name	
DOT	Methyl methacrylate monomer, stabilized, mixture
ADR IMDG, IATA	1247 Methyl methacrylate monomer, stabilized, mixture METHYL METHACRYLATE MONOMER, STABILIZED, mixture
Transport hazard class(es)	
Class Label	3 Flammable liquids 3
ADR	

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Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	339
EMS Number:	F-E,S-D
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(EQ)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN1247, Methyl methacrylate monomer, stabilized, mixture, 3, II

#### 15 Regulatory information

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

80-62-6 Methyl methacrylate

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

13463-67-7 titanium dioxide

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Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Cancerogenity categories	
Cancerogenity categories EPA (Environmental Protection Agency)	E, N
Cancerogenity categories EPA (Environmental Protection Agency) 80-62-6 Methyl methacrylate	<i>E, N</i>
None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         80-62-6       Methyl methacrylate         TLV (Threshold Limit Value established by ACGIH)         80-62-6       Methyl methacrylate	E, Na

13463-67-7 titanium dioxide

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

Hazard-determining components of labeling:
Methyl methacrylate
titanium dioxide
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
· Hazard statements
Highly flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.
· Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Other in	<i>iformation</i>
Classifica	ation according to Regulation (EC) No 1272/2008 Calculation method
Departme	ent issuing MSDS: Regulatory affairs
Date of p	reparation / last revision 08/13/2014 / -
Abbrevia	tions and acronyms:
	pean Agreement concerning the International Carriage of Dangerous Goods by Road)
	rnational Maritime Code for Dangerous Goods
	epartment of Transportation
	national Air Transport Association nerican Conference of Governmental Industrial Hygienists
	uropean Inventory of Existing Commercial Chemical Substances
	iropean List of Notified Chemical Substances
	ical Abstracts Service (division of the American Chemical Society)
	onal Fire Protection Association (USA)
-	ardous Materials Identification System (USA)
	al concentration, 50 percent al dose, 50 percent
	i: Flammable liquids, Hazard Category 2
	: Skin corrosion/irritation, Hazard Category 2
	: Sensitisation - Skin, Hazard Category 1
	rcinogenicity, Hazard Category 2
	productive toxicity, Hazard Category 2
STOT SE 3:	Specific target organ toxicity - Single exposure, Hazard Category 3
Sources	
• EnviChe	em (www.echemportal.org)
* Data co	mpared to the previous version altered.
This verse	ion replaces all previous versions.
Disclaime	
The infor	mation contained herein is believed to be true and accurate. However, all statements, recommendatio
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	change without notice. For the avoidance of doubt, however, nothing in this document excludes
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