

# Safety Data Sheet acc. to OSHA HCS Version 4

Reviewed on 08/01/2017

# **1 Identification**

#### · Product identifier

· Trade name: SURFACE COAT

- Article number: US118
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Application of the substance / the mixture Dental material for glazing and hardening

#### · Details of the supplier of the safety data sheet

· Manufacturer:

Kuraray Noritake Dental Inc. 1621 Sakazu, Kurashiki, Okayama 710-0801, Japan

· Contact information:

### Kuraray America, Inc.

33 Maiden Lane, 6th Floor, New York, NY 10038 U.S.A.

Tel: 800-879-1676

Fax: 888-700-5200

Website: www.kuraraydental.com

Emergency telephone number:

For chemical emergency spill, leak, fire, exposure or accident Call CHEMTREC day and night

- Within USA and Canada: 1-800-424-9300 CCN706984 or
- +1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

### · Label elements

#### · GHS label elements

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

- Hazard pictograms GHS02, GHS07
- · Signal word Danger

### · Hazard-determining components of labeling:

methyl methacrylate

#### · Hazard statements

H225 Highly flammable liquid and vapor.

H317 May cause an allergic skin reaction.

### Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

(Contd. on page 2)

< 10%



Printing date 08/01/2017

Safety Data Sheet acc. to OSHA HCS

Version 4

Reviewed on 08/01/2017

Trade name: SURFACE COAT

	(Contd. of page 1)
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	-
	P363 P403+P235

#### · 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:** 

80-62-6 methyl methacrylate

🎯 Flam. Liq. 2, H225; 🕖 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335

• Other ingredients:

Aliphatic hexaacrylate Initiators

#### **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.
- After swallowing:

Do not induce vomiting; immediately call for medical help.

If symptoms persist consult doctor.

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** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

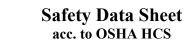
Wear fully protective suit.

### **6** Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

US



Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Version 4

Reviewed on 08/01/2017

Trade name: SURFACE COAT

Ensure adequate ventilation.

	rence to other sections Section 7 for information on safe handling. Section 8 for information on personal protection equipment. Section 13 for disposal information.
7 Han	ndling and storage
Ensu Preve · <b>Info</b> Keep	dling: autions for safe handling ure good ventilation/exhaustion at the workplace. ent formation of aerosols. rmation about protection against explosions and fires: o ignition sources away - Do not smoke. ect against electrostatic charges.
Stora Requ Infor Store Store Furt Keep Store Prote	ditions for safe storage, including any incompatibilities age: uirements to be met by storerooms and receptacles: Store in a cool location (2-25 °C). rmation about storage in one common storage facility: e away from oxidizing agents. e away from reducing agents. her information about storage conditions: o receptacle tightly sealed. e in cool, dry conditions in well sealed receptacles. ext from heat and direct sunlight. dific end use(s) No further relevant information available.
· Addi · Cont	oosure controls/personal protection itional information about design of technical systems: No further data; see item 7. trol parameters
	ponents with limit values that require monitoring at the workplace:
	2-6 methyl methacrylate
	410 mg/m <sup>3</sup> , 100 ppm
1 D L I	410 mg/m <sup>3</sup> , 100 ppm Short-term value: 410 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 205 mg/m <sup>3</sup> , 50 ppm SEN
TLV	Long-term value: 205 mg/m <sup>3</sup> , 50 ppm SEN
• Addi • Expo • Perso • Geno Immo Wasi • Brea In ca	Long-term value: 205 mg/m <sup>3</sup> , 50 ppm

(Contd. of page 2)



· Methods and material for containment and cleaning up:

Do not flush with water or aqueous cleansing agents



Version 4

Reviewed on 08/01/2017

Trade name: SURFACE COAT

(Contd. of page 3)

US

· 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:



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Tightly sealed goggles

9 Physical and chemical properties		
<ul> <li>Information on basic physical and</li> <li>General Information</li> <li>Appearance:</li> </ul>	chemical properties	
Form:	Liquid	
Color:	Colorless	
· Odor:	Slightly methacrylate odor	
· pH-value:	Not determined.	
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	-48 °C (methyl methacrylate) 101 °C (methyl methacrylate)	
· Flash point:	10 °C (methyl methacrylate)	
· Ignition temperature:	430.0 °C (methyl methacrylate)	
• Decomposition temperature:	Not determined.	
• Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.	
<ul> <li>Explosion limits:</li> <li>Lower:</li> <li>Upper:</li> <li>Oxidizing properties</li> </ul>	<ul><li>2.1 Vol % (methyl methacrylate)</li><li>12.5 Vol % (methyl methacrylate)</li><li>Not determined</li></ul>	
· Vapor pressure:	47.0 hPa (20 °C, methyl methacrylate)	
· Density: · Relative density · Vapor density	1.2 g/cm <sup>3</sup> Not determined. Not determined.	
	(Contd. on page 5	



Reviewed on 08/01/2017

Trade name: SURFACE COAT

		(Contd. of page 4)
· Evaporation rate	Not determined.	
• Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octand	ol/water): Not determined.	
· Viscosity: · Other information	Not determined 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 and stored 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: Carbon monoxide and carbon dioxide

### **11 Toxicological information**

· Information on toxicological effects

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

#### 80-62-6 methyl methacrylate

Oral LD50 3625 mg/kg (mouse)

7872 mg/kg (rat)

Dermal LD50 5945 mg/kg (mouse)

- Primary irritant effect:
- on the skin: No irritant effect.
- 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 (International Agency for Research on Cancer)

80-62-6 methyl methacrylate

#### · NTP (National Toxicology Program)

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.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

(Contd. on page 6)

3

US



Version 4

Reviewed on 08/01/2017

(Contd. of page 5)

Trade name: SURFACE COAT

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

# · 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:

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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.

# **14 Transport information**

· UN-Number	101047
· DOT	UN1247 1247
· ADR, IMDG, IATA	1247
· UN proper shipping name	
· ADR	1247 METHYL METHACRYLATE MONOMER,
IMDC LATA	STABILIZED, solution
· IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED, solution
	solution
· Transport hazard class(es)	
·DOT	
CLANDACE IS DI	
· Class	3 Flammable liquids
· Label	3
· ADR, IMDG, IATA	
Class	3 Flammable liquids
· Label	3
· Packing group	
<sup>·</sup> DOT, ADR, IMDG, IATA	II
• Environmental hazards:	
· Environmental nazards: · Marine pollutant:	No
•	
• Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	339
	(Contd. on page

US



Reviewed on 08/01/2017

Trade name: SURFACE COAT

	(Contd. of page 6)
· EMS Number:	F-E,S-D
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· UN "Model Regulation":	UN1247; METHYL METHACRYLATE MONOMER, STABILIZED, solution; 3; II

# **15 Regulatory information**

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

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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

· EPA (Environmental Protection Agency)

80-62-6 methyl methacrylate

• TLV (Threshold Limit Value established by ACGIH)

80-62-6 methyl methacrylate

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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**

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

(Contd. on page 8)

E;NL

A4

US



# Safety Data Sheet acc. to OSHA HCS

Version 4

Reviewed on 08/01/2017

Trade name: SURFACE COAT

	(Contd. of page 7)
NFPA ratings (scale 0 - 4)	
$\begin{array}{c} \textbf{3} \\ \textbf{0} \\ $	
HMIS-ratings (scale 0 - 4)	
HEALTH $0$ Health = 0	
FIRE 3 Fire = 3	
<b>REACTIVITY</b> Reactivity = 0	
Abbreviations and acronyms:	
Flam. Liq. 2: Flammable liquids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	
	1