

SAFETY DATA SHEETS

This SDS packet was issued with item:

075601596

N/A

Safety Data Sheet

according to 29 CFR 1910.1200(g)

CEREC Optispray 50 mL

Revision date: 08/16/2021

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1. Identification**Product identifier**

CEREC Optispray 50 mL

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**Dusting agent (Aerosol)
Professional uses**Details of the supplier of the safety data sheet**

Company name: Sirona Dental Systems GmbH
Street: Fabrikstraße 31
Place: D-64625 Bensheim
Telephone: +49 (0)625116-0
e-mail (Contact person): <http://srvcontact.sirona.com/webformulars/EntryPage>
Internet: www.dentsplysirona.com

Emergency phone number: GBK (24 h) +49 (0)6132-84463**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Gases under pressure: Compressed gas

Label elements**29 CFR Part 1910.1200****Signal word:** Warning**Pictograms:****Hazard statements**

Contains gas under pressure; may explode if heated

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Dispose of waste according to applicable legislation.

Hazards not otherwise classified

not applicable: Bridging principle "Aerosols". (Data obtained by expert judgement./ Manufacturer)
Keep out of reach of children.

3. Composition/information on ingredients**Mixtures****Hazardous components**

CAS No	Components	Quantity
109-66-0	pentane	1 %

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4. First-aid measures**Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

Not an irritant. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

When in doubt or if symptoms are observed, get medical advice.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

In case of fire may be liberated: Hydrogen fluoride, Pyrolysis products, toxic.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General measures**

Provide adequate ventilation. Remove all sources of ignition. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove persons to safety.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up**Other information**

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

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

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Precautions for safe handling

Advice on safe handling

Do not pierce or burn, even after use. Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

Heating causes rise in pressure with risk of bursting. Remove all sources of ignition. Do not spray on naked flames or any incandescent material.

Advice on general occupational hygiene

Do not breathe gas/fume/vapour/spray. Do not breathe dust. Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Hints on joint storage

No information available.

Further information on storage conditions

Protect against direct sunlight. Keep away from heat.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
64-17-5	Ethanol	1000			STEL (15 min)	ACGIH-2021
64-17-5	Ethyl alcohol (Ethanol)	1000	1900		TWA (8 h)	REL
64-17-5	Ethyl alcohol	1000	1900		TWA (8 h)	REL
109-66-0	n-Pentane	120	350		TWA (8 h)	REL
		C 610	C 1800		Ceiling	REL
-	Particles (insoluble or poorly soluble) not otherwise specified (inhalable fraction)		10		TWA (8 h)	ACGIH-2021
-	Particles (insoluble or poorly soluble) not otherwise specified (respirable fraction)		3		TWA (8 h)	ACGIH-2021
-	Particulates not Otherwise regulated (PNOR) Respirable fraction	529.5 mp/m ³	5		TWA (8 h)	REL
-	Particulates not Otherwise regulated (PNOR) Total dust	1765 mp/m ³	15		TWA (8 h)	REL
109-66-0	Pentane: n-pentane	1000			TWA (8 h)	ACGIH-2021
109-66-0	Pentane	1000	2950		TWA (8 h)	REL
112926-00-8	Silica, amorphous, precipitated and gel	706 mp/m ³	(Z-3)		TWA (8 h)	REL

Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

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Eye/face protection

Eye protection: not required.

Hand protection

Wear suitable gloves.

Suitable material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

not applicable

Environmental exposure controls

Avoid release to the environment.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	Liquid (Aerosol)
Color:	whitish
Odor:	characteristic
Odour threshold:	not determined

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	-16 °C
Flash point:	not determined

Flammability

Solid/liquid:	not applicable
Gas:	not applicable

Explosive properties

Heating causes rise in pressure with risk of bursting.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined

Self-ignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

Oxidizing properties

The product is not: oxidising.

pH-Value:	not determined
Viscosity / dynamic:	not determined

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Viscosity / kinematic:	not determined
Water solubility:	poorly soluble
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapor pressure:	4192 hPa
Density:	1,25 g/cm ³
Relative vapour density:	not determined

Other information**Other safety characteristics**

Solvent content:	1,7 % (Substance, organic)
Solid content:	2,0 %
Evaporation rate:	not determined

Further Information

No information available.

10. Stability and reactivity**Reactivity**

Aerosol, Heating causes rise in pressure with risk of bursting.

Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

No known hazardous reactions.

Conditions to avoid

Protect against direct sunlight. Keep away from heat.

Incompatible materials

No information available.

Hazardous decomposition products

In case of fire may be liberated: Hydrogen fluoride, Pyrolysis products, toxic.

11. Toxicological information**Information on toxicological effects****Route(s) of Entry**

Eye contact, dermal, inhalative.

Acute toxicity

Based on available data, the classification criteria are not met.

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
109-66-0	pentane				
	oral	LD50 > 5000 mg/kg	Rat	Manufacturer	
	dermal	LD50 > 5000 mg/kg	Rabbit	Manufacturer	

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (IARC): Ethanol in alcoholic beverages (CAS 64-17-5) is listed in group 1.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on other hazards

Other information

No information available.

12. Ecological information

Ecotoxicity

The product is not: Ecotoxic.

Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Product is easily volatile.

Endocrine disrupting properties

not applicable

Other adverse effects

No information available.

Further information

Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

This material and its container must be disposed of in a safe way. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

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Contaminated packaging

Do not pierce or burn, even after use. Dispose of waste according to applicable legislation.

14. Transport information

US DOT 49 CFR 172.101

UN number or ID number: UN 1950
Proper shipping name: AEROSOLS
Transport hazard class(es): 2.2
 Hazard label: 2.2



Marine transport (IMDG)

UN number: UN 1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2.2
Packing group: -
 Hazard label: 2.2



Special Provisions: 63, 190, 277, 327, 344, 381, 959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

UN number: UN 1950
UN proper shipping name: AEROSOLS, NON-FLAMMABLE
Transport hazard class(es): 2.2
Packing group: -
 Hazard label: 2.2



Special Provisions: A98 A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Heating causes rise in pressure with risk of bursting.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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not applicable

15. Regulatory information**U.S. Regulations****National Inventory TSCA**

CAS No. 29118-24-9 (trans-1,3,3,3-tetrafluoroprop-1-ene): Yes.

CAS No. 74-98-6 (propane): Yes.

CAS No. 64-17-5 (ethanol; ethyl alcohol): Yes.

CAS No. 112945-52-5 (Amorphous Silica): Yes.

National regulatory information

SARA Section 311/312 Hazards:

Pentane (109-66-0): Fire hazard, Immediate (acute) health hazard

ethanol; ethyl alcohol (64-17-5): Fire hazard

Clean Air Act Section 112(r):

Pentane (109-66-0): Threshold quantities = 10,000 lbs.

State Regulations**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information**Hazardous Materials Information Label (HMIS)**

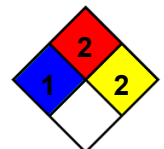
Health:	1
Flammability:	2
Physical Hazard:	2

NFPA Hazard Ratings

Health:	1
Flammability:	2
Reactivity:	2
Unique Hazard:	

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**Abbreviations and acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists

CFR: Code of Federal Regulations

DOT: Department of Transportation

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IARC: International Agency for Research on Cancer

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

NFPA: National Fire Protection Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limit

REL: recommended exposure limit

SARA: Superfund Amendments and Reauthorization Act

STEL: Short-term exposure limit

TSCA: Toxic Substances Control Act

TWA: time-weighted average

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TI: Technical Instructions
DGR: Dangerous Goods Regulations
UN: United Nations
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds

Other data

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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