

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 08/29/2024

Reviewed on 08/29/2024

### 1 Identification

#### Product identifier

Trade name: **NitramOil**  
 Article number: 5140-1128 SIR  
 Application of the substance / the mixture: Lubricant

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

Manufacturer/Supplier: Sirona Dental Systems GmbH  
 Fabrikstraße 31  
 64625 Bensheim  
 Deutschland  
<https://www.dentsplysirona.com>  
 Tel.: +49 (0) 6251/16-1670

Information department: Product Safety Department  
 Emergency telephone number: Advice center for poisoning in Mainz Tel: +49(0)6131/19240 Poison information:+49(0) 700/GIFTINFO

### 2 Hazard(s) identification

#### Classification of the substance or mixture

Gases under Pressure - Compressed gas H280 Contains gas under pressure; may explode if heated.

#### Label elements

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

#### Hazard pictograms



GHS04

#### Signal word

Warning

#### Hazard statements

Contains gas under pressure; may explode if heated.

#### Precautionary statements

Protect from sunlight. Store in a well-ventilated place.

#### Information pertaining to particular dangers for man and environment:

##### NFPA ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

##### HMIS-ratings (scale 0 - 4)



HEALTH 0 Health = 0

FIRE 1 Fire = 1

REACTIVITY 0 Reactivity = 0

#### Other hazards

##### Results of PBT and vPvB assessment

PBT: Not applicable.  
 vPvB: Not applicable.

### 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

Description: Synthrtic hydrogencarbon-oil,esteroil  
 Active substance with propellant

#### Dangerous components:

2,6-Di-tert-butyl-p-kresol	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 2.5%
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Additional information: For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

#### Description of first aid measures

General information: Position and transport stably on side.

After inhalation: In case of unconsciousness place patient stably in side position for transportation. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
 Supply fresh air.

After skin contact: Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.  
 Wash off with soap and water and rinse well.

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

After swallowing: Seek immediate medical advice.  
 Rinse out mouth.

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.

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### 5 Fire-fighting measures

- . **Extinguishing media**
- . Suitable extinguishing agents: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- . **Special hazards arising from the substance or mixture**
- . In case of fire, the following can be released:  
Carbon monoxide (CO)
- . **Advice for firefighters**
- . Protective equipment: Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- . **Additional information**
- . Cool endangered receptacles with water spray.  
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**
- . Particular danger of slipping on leaked/spilled product.  
Remove persons from danger area.  
Wear protective clothing.  
Ensure adequate ventilation
- . **Environmental precautions:**
- . Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- . **Methods and material for containment and cleaning up:**
- . Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Absorb liquid components with liquid-binding material.
- . **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.
- . **Protective Action Criteria for Chemicals**

. PAC-1:		
CAS: 124-38-9	carbon dioxide	54000 mg/m <sup>3</sup>
. PAC-2:		
CAS: 124-38-9	carbon dioxide	72000 mg/m <sup>3</sup>
. PAC-3:		
CAS: 124-38-9	carbon dioxide	90000 mg/m <sup>3</sup>

### 7 Handling and storage

- . **Handling:**
- . Precautions for safe handling: Keep away from heat and direct sunlight.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- . Information about protection against explosions and fires: Do not spray on a naked flame or any incandescent material.
- . **Conditions for safe storage, including any incompatibilities**
- . Requirements to be met by storerooms and receptacles: Observe official regulations on storing packagings with pressurized containers.  
Store only in the original receptacle.  
Store in a cool location.
- . Information about storage in one common storage facility: Store away from oxidizing agents.  
Store away from foodstuffs.
- . Further information about storage conditions: Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- . **Specific end use(s)**
- . No further relevant information available.

### 8 Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see section 7.

- . **Control parameters**

. Components with limit values that require monitoring at the workplace:		
<b>2,6-Di-tert-butyl-p-kresol</b>		
REL	Long-term value: 10 mg/m <sup>3</sup>	
TLV	Long-term value: 2* mg/m <sup>3</sup>	
	*as inhalable fraction and vapor, A4	

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

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**. Exposure controls**

. Personal protective equipment:  
 . General protective and hygienic measures:

Do not eat or drink while working.  
 Wash hands before breaks and at the end of work.  
 Not required.

. Breathing equipment:  
 . Protection of hands:

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.

. Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
 Nitrile rubber, NBR  
 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

Value for the permeation: Level  $\leq 0,7$  mm 480min (8h) EN374  
 The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

. Eye protection:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
 Not required.

## 9 Physical and chemical properties

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

. General Information

. Appearance:

. Form:	Aerosol
. Color:	Light yellow
. Odor:	Characteristic
. Odor threshold:	Not determined.

. pH-value:	Not determined. Not applicable.
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. Change in condition	
Boiling point/Boiling range:	Not applicable, as aerosol. Undetermined.
. Pour point	< -40°C °C (DIN ISO 3016)

. Flash point:	> 200 °C (> 392 °F) (DIN ISO 2592)
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. Flammability (solid, gaseous):	Not applicable.
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. Decomposition temperature:	Not determined.
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. Ignition temperature:	Product is not selfigniting.
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. Danger of explosion:	Not determined.
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. Explosion limits:	
Lower:	Not determined
Upper:	Not determined

. Vapor pressure at 20 °C (68 °F):	> 0 hPa
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. Density at 20 °C (68 °F):	0.84 g/cm <sup>3</sup> (7.0098 lbs/gal)
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. Relative density	Not determined.
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. Vapor density	Not determined.
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. Evaporation rate	Not applicable.
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. Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

. Partition coefficient (n-octanol/water):	Not determined.
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. Viscosity:	
Dynamic:	Not determined. Not applicable.
Kinematic:	Not applicable.

. Solvent content:	
VOC content:	0.00 %
VOC (EU) (%)	0.0 %

Solids content:	0.0 %
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**. Other information**

No further relevant information available.

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### 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:

#### **2,6-Di-tert-butyl-p-kresol**

Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rat)

##### . Primary irritant effect:

- . on the skin: No irritant effect.
- . on the eye: No irritating effect.
- . Sensitization: No sensitizing effects known.

##### . Additional toxicological information:

#### **2,6-Di-tert-butyl-p-kresol**

Oral	NOAEL (90d)	100 mg/kg (rat)
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##### . Carcinogenic categories

##### . IARC (International Agency for Research on Cancer)

2,6-Di-tert-butyl-p-kresol	3
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##### . NTP (National 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:

#### **2,6-Di-tert-butyl-p-kresol**

EC50 (48h)	0.17 mg/l (daphnia magna/gr. Wasserfloh)
EC50 (72h)	0.42 mg/l (Desmodesmus subspicatus/Grünalge)
LC50 (72h)	> 0.57 mg/l (danio rerio/ Zebraabärbling)
NOEC (21d)	> 0.39 mg/l (daphnia magna/gr. Wasserfloh)

##### . **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.

##### . **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: 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.

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## 14 Transport information

<ul style="list-style-type: none"> <li>. <b>UN-Number</b></li> <li>. DOT, ADR, IMDG, IATA</li> </ul>	<p>UN1950</p>
<ul style="list-style-type: none"> <li>. <b>UN proper shipping name</b></li> <li>. DOT</li> <li>. ADR</li> <li>. IMDG</li> <li>. IATA</li> </ul>	<p>Aerosols, non-flammable 1950 AEROSOLS AEROSOLS AEROSOLS, non-flammable</p>
<ul style="list-style-type: none"> <li>. <b>Transport hazard class(es)</b></li> <li>. DOT</li> </ul>	<p></p>
<ul style="list-style-type: none"> <li>. Class</li> <li>. Label</li> </ul>	<p>2.2 Gases 2.2</p>
<ul style="list-style-type: none"> <li>. ADR</li> </ul>	<p></p>
<ul style="list-style-type: none"> <li>. Class</li> <li>. Label</li> </ul>	<p>2.5A Gases 2.2</p>
<ul style="list-style-type: none"> <li>. IMDG, IATA</li> </ul>	<p></p>
<ul style="list-style-type: none"> <li>. Class</li> <li>. Label</li> </ul>	<p>2.2 Gases 2.2</p>
<ul style="list-style-type: none"> <li>. <b>Packing group</b></li> <li>. DOT, ADR, IMDG, IATA</li> </ul>	<p>Void</p>
<ul style="list-style-type: none"> <li>. <b>Environmental hazards:</b></li> <li>. Marine pollutant:</li> </ul>	<p>No</p>
<ul style="list-style-type: none"> <li>. <b>Special precautions for user</b></li> <li>. Hazard identification number (Kemler code):</li> <li>. EMS Number:</li> <li>. Stowage Code</li>   <li>. Segregation Code</li> </ul>	<p>Warning: Gases - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p>
<ul style="list-style-type: none"> <li>. <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>. <b>Transport/Additional information:</b></li> </ul>	<p></p>
<ul style="list-style-type: none"> <li>. ADR</li> <li>. Excepted quantities (EQ)</li> </ul>	<p>Code: E0 Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> <li>. IMDG</li> <li>. Limited quantities (LQ)</li> <li>. Excepted quantities (EQ)</li> </ul>	<p>1L Code: E0 Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> <li>. <b>UN "Model Regulation":</b></li> </ul>	<p>UN 1950 AEROSOLS, 2.2</p>

## 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**      No further relevant information available.

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. Sara	
. Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
. Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
. TSCA (Toxic Substances Control Act):	
CAS: 124-38-9	carbon dioxide ACTIVE
	2,6-Di-tert-butyl-p-kresol ACTIVE
. Hazardous Air Pollutants	
None of the ingredients is 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.	
. Carcinogenic categories	
. EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
. TLV (Threshold Limit Value)	
2,6-Di-tert-butyl-p-kresol	A4
. MAK (German Maximum Workplace Concentration)	
2,6-Di-tert-butyl-p-kresol	4
. NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
. GHS label elements	The product is classified and labeled according to the Globally Harmonized System (GHS).
. Hazard pictograms	
	GHS04
. Signal word	Warning
. Hazard statements	Contains gas under pressure; may explode if heated.
. Precautionary statements	Protect from sunlight. Store in a well-ventilated place.
. <b>Chemical safety assessment:</b>	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.

. <b>Department issuing SDS:</b>	Environment protection department.
. <b>Contact:</b>	
. Date of preparation / last revision	08/29/2024 / 1201
. Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Gases under Pressure - Compressed gas: Gases under pressure – Compressed gas Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

\* Data compared to the previous version altered.