

Safety Data Sheet

acc. to OSHA HCS

Printing date 11/02/2017

Reviewed on 11/02/2017

1 Identification

Product identifier

- Trade name: **NitramOil**
- Article number: 1.284
- Application of the substance / the mixture: Lubricant

Details of the supplier of the safety data sheet

- Manufacturer/Supplier: Sirona Dental A/S
Rho 10
DK-8382 Hinnerup Denmark
Tel.: +45 87439060
Fax: +45 87439061
E-mail: contact.hygiene@sirona.com
Homepage: http://www.sirona.com
- Information department: Enviroment protection department
- Emergency telephone number: Advice centre for poisoning university Mainz phone +49(0)6131/19240
or poison information:+49(0)700/GIFTINFO

2 Hazard(s) identification

Classification of the substance or mixture

Press. 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.
- NFPA ratings (scale 0 - 4): Health = 0
Fire = 3
Reactivity = 1


 Health = 0
 Fire = 3
 Reactivity = 1

HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	3	Fire = 3
REACTIVITY	1	Reactivity = 1

Other hazards

- Results of PBT and vPvB assessment: Not applicable.
- 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.
- After eye contact: Wash with water and soap and rinse thoroughly. 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: No further relevant information available.
- 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: CO₂, 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**
- **Advice for firefighters**
- Protective equipment: In case of fire, the following can be released:
Carbon monoxide (CO)
- **Additional information**
- Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
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**
 - **Environmental precautions:**
 - **Methods and material for containment and cleaning up:**
 - **Reference to other sections**
- Particular danger of slipping on leaked/spilled product.
Remove persons from danger area.
Wear protective clothing.
Ensure adequate ventilation
- Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Absorb liquid components with liquid-binding material.
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

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

8 Exposure controls/personal protection

- **Additional information about design of technical systems:**
- **Control parameters**

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

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

REL	Long-term value: 10 mg/m ³
TLV	Long-term value: 2* mg/m ³ *as inhalable fraction and vapor

- Additional information:
 - **Exposure controls**
 - Personal protective equipment:
 - General protective and hygienic measures:
 - Breathing equipment:
- The lists that were valid during the creation were used as basis.
- Do not eat or drink while working.
Wash hands before breaks and at the end of work.
Not required.

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- 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.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves: 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 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: 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.
- Change in condition
 - Boiling point/Boiling range: Not applicable, as aerosol.
 - Pour point: $< -40^{\circ}\text{C}$ ($< -40^{\circ}\text{F}$) ((DIN ISO 3016))
 - Flash point: $> 200^{\circ}\text{C}$ ($> 392^{\circ}\text{F}$) ((DIN ISO 2592))
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature:
 - Decomposition temperature: Not determined.
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Not determined.
- Explosion limits:
 - Lower: Not determined
 - Upper: Not determined
- Vapor pressure at 20°C (68°F): $< 0,001$ hPa (> 0 mm Hg)
- Density at 20°C (68°F): $0,84$ g/cm³ (7.0098 lbs/gal)
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not applicable.
- Solubility in / Miscibility with
 - Water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
 - Dynamic: Not determined.
 - Kinematic at 40°C (104°F): 25 mm²/s (DIN 53211/4)
- Solvent content:
 - Organic solvents: 0,0 %
- **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.

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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)
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Dermal	LD50	>5,000 mg/kg (rat)
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Primary irritant effect:

on the skin:

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

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

Irritation of skin	OECD 404	- (rabbit)
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on the eye:

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

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

Irritation of eyes	OECD	- (rabbit)
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Sensitization:

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

Subacute to chronic toxicity:

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

Oral	NOAEL (90d)	100 mg/kg (rat)
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Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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

14 Transport information

UN-Number

DOT, ADR, IMDG, IATA

UN1950

UN proper shipping name

DOT

Aerosols, non-flammable

ADR

1950 Aerosols

IMDG

AEROSOLS

IATA

AEROSOLS, non-flammable

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· **Transport hazard class(es)**

· DOT



· Class 2.2
· Label 2.2

· ADR



· Class 2 5A Gases
· Label 2.2

· IMDG, IATA



· Class 2.2
· Label 2.2

· **Packing group**

· DOT, ADR, IMDG, IATA Void

· **Environmental hazards:**

· Marine pollutant: No
· **Special precautions for user** Warning: Gases

· Danger code (Kemler): -

· EMS Number: F-D,S-U

· Stowage Code

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.

· Segregation Code

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· ADR

· Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

· IMDG

· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

· **UN "Model Regulation":**

UN 1950 AEROSOLS, 2.2

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· 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):

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.

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· 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 established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· 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.

· **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.

· **Department issuing SDS:**

Environment protection department.

· Date of preparation / last revision

11/02/2017 / 1800

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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
 ACGIH: American Conference of Governmental Industrial Hygienists
 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)
 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
 Press. 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.