

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.11.2017

Version number 1801

Revision: 02.11.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **NitramOil**
Article number: 1.284

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture Lubricant
No further relevant information available.

1.3 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

Further information obtainable from: Environment protection department
1.4 Emergency telephone number: Advice centre for poisoning university Mainz phone +49(0)6131/19240
or poison information:+49(0)700/GIFTINFO

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Aerosol 3 H229 Pressurised container: May burst if heated.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
Hazard pictograms Void
Signal word Warning
Hazard statements H229 Pressurised container: May burst if heated.
Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Synthetic 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.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Position and transport stably in side position.
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.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

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5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Carbon monoxide (CO)

5.3 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.

SECTION 6: Accidental release measures

6.1 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

6.2 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.

6.3 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 item 13.

Absorb liquid components with liquid-binding material.

6.4 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.

SECTION 7: Handling and storage

7.1 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 fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.
Store only in the original receptacle.
Store in a cool location.

Information about storage in one common storage facility:

Store away from oxidising 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.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

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

WEL Long-term value: 10 mg/m³

DNELs

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

Dermal	DNEL Long-term - systemic effects	8.3 mg/kg bw/day (wrk)
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Inhalative	DNEL Long-term - systemic effects	5.8 mg/m ³ (wrk)
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PNECs

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

PNEC Soil (Boden)	1.04 mg/kg (---)
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PNEC Fresh water sediment (Süßwassersediment)	1.29 mg/kg (---)
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PNEC freshwater (Süßwasser)	0.004 mg/l (---)
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PNEC marine water (Meerwasser)	0.004 mg/l (---)
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PNEC mikrobiological activity in waste water	100 mg/l (---)
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Additional information:

The lists valid during the making were used as basis.

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8.2 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.

· Respiratory protection:
· 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:

Aerosol

Colour:

Light yellow

· Odour:

Characteristic

· Odour threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition

Initial boiling point and boiling range:

Not applicable, as aerosol.

· Pour point

< -40°C °C ((DIN ISO 3016))

· Flash point:

> 200 °C ((DIN ISO 2592))

· Flammability (solid, gas):

Not applicable.

· Ignition temperature:

Decomposition temperature:

Not determined.

· Auto-ignition temperature:

Product is not selfigniting.

· Explosive properties:

Not determined.

· Explosion limits:

Lower:

Not determined

Upper:

Not determined

· Vapour pressure at 20 °C:

<0,001 hPa

· Density at 20 °C:

0,84 g/cm³

· Relative density

Not determined.

· Vapour 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:

25 mm²/s (DIN 53211/4)

· Solvent content:

Organic solvents:

0,0 %

· **9.2 Other information**

No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity**

No further relevant information available.

· **10.2 Chemical stability**

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions**

No dangerous reactions known.

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- **10.4 Conditions to avoid**
- **10.5 Incompatible materials:**
- **10.6 Hazardous decomposition products:**

No further relevant information available.
No further relevant information available.

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Hazardous thermal decomposition products may include: Formaldehyde, Carbon dioxide, Carbon monoxide, Methanol

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

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

- LD/LC50 values 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:

- Skin corrosion/irritation

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

Irritation of skin	OECD 404	- (rabbit)
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Based on available data, the classification criteria are not met.

- Serious eye damage/irritation

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

Irritation of eyes	OECD	- (rabbit)
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Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation 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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- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 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/ Zebrabärbling)
NOEC	>0.39 mg/l / 21d	(daphnia magna/gr. Wasserfloh)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- Additional ecological information:

- General notes: Water hazard class 1 (German Regulation) (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.

- **12.5 Results of PBT and vPvB assessment**

- PBT: Not applicable.

- vPvB: Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:

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

SECTION 14: Transport information

- **14.1 UN-Number**

- ADR, IMDG, IATA

UN1950

- **14.2 UN proper shipping name**

- ADR

1950 AEROSOLS

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- IMDG
- IATA
- **14.3 Transport hazard class(es)**
- ADR

AEROSOLS
AEROSOLS, non-flammable



- Class
- Label

2 5A Gases.
2.2

- IMDG, IATA



- Class
- Label
- **14.4 Packing group**
- ADR, IMDG, IATA

2.2
2.2

- **14.5 Environmental hazards:**

- Marine pollutant:

No

- **14.6 Special precautions for user**

Warning: Gases.

- Danger code (Kemler):

-

- EMS Number:

F-D,S-U

- Stowage Code

SW1 Protected from sources of heat.

- Segregation Code

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.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

- Transport/Additional information:

- ADR
- Limited quantities (LQ)
- Excepted quantities (EQ)

1L
Code: E0
Not permitted as Excepted Quantity

- Transport category
- Tunnel restriction code

3
E

- IMDG
- Limited quantities (LQ)
- Excepted quantities (EQ)

1L
Code: E0
Not permitted as Excepted Quantity

- UN "Model Regulation":

UN 1950 AEROSOLS, 2.2

SECTION 15: Regulatory information

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

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- REGULATION (EC) No 1907/2006
ANNEX XVII

Conditions of restriction: 3

- **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 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:
- Abbreviations and acronyms:

Environment protection department.

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

Aerosol 3: Aerosols – Category 3

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.

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