

Safety Data Sheet

acc. to OSHA HCS

Printing date 11/02/2017

Reviewed on 11/02/2017

1 Identification

- **Product identifier**

- Trade name: **NitramOil #2**
- Article number: 1.342
- 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**

The product is not classified according to the Globally Harmonized System (GHS).

- **Label elements**

- GHS label elements
- Hazard pictograms
- Signal word
- Hazard statements
- NFPA ratings (scale 0 - 4)

Void
Void
Void
Void



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:
- vPvB:

Not applicable.
Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- Description: Synthrtic hydrogencarbon-oil,esteroil
- Dangerous components: Void
- 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.
Take affected persons out of danger area and lay down.
- After inhalation: Seek medical treatment in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.
Take affected persons into fresh air and keep quiet.
Supply fresh air.
- After skin contact: Generally the product does not irritate the skin.
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water.
Seek medical treatment.
- After swallowing: If symptoms persist consult doctor.
A person vomiting while lying on their back should be turned onto their side.
Do not induce vomiting; immediately call for medical help.
- 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.

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.
- For safety reasons unsuitable extinguishing agents: Water with full jet

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· **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.
Wear fully protective suit.

· **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:**

Use respiratory protective device against the effects of fumes/dust/aerosol.
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).

· **Reference to other sections**

Dispose contaminated material as waste according to item 13.
No dangerous substances are released.
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

Prevent formation of aerosols.
Keep receptacles tightly sealed.
No special precautions are necessary if used correctly.
Avoid the formation of oil haze.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· Information about protection against explosions and fires:

No special measures required.
Keep ignition sources away - Do not smoke.

· **Conditions for safe storage, including any incompatibilities**

· Storage:

· Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Store in a cool location.

· Information about storage in one common storage facility:

Store away from foodstuffs.
Store away from oxidizing agents.

· Further information about storage conditions:

Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.
Store in cool, dry conditions in well sealed receptacles.
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
No further relevant information available.

· **Specific end use(s)**

8 Exposure controls/personal protection

· **Additional information about design of technical systems:**

No further data; see item 7.

· **Control parameters**

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information:

The lists that were valid during the creation were used as basis.

· **Exposure controls**

· Personal protective equipment:

· General protective and hygienic measures:

· Breathing equipment:

Avoid close or long term contact with the skin.
Use suitable respiratory protective device in case of insufficient ventilation.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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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: Goggles recommended during refilling.

9 Physical and chemical properties

Information on basic physical and chemical properties

- General Information
- Appearance:
 - Form: Fluid
 - Color: Light yellow
- Odor: Product specific
- Odor threshold: Not determined.
- pH-value: Not determined.
- Change in condition
- Boiling point/Boiling range: Undetermined.
- Pour point: < -40 °C (< -40 °F) (DIN ISO 3016)
- Flash point: > 200 °C (> 392 °F)
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature:
 - Decomposition temperature: Not determined.
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Not determined.
- Vapor pressure at 20 °C (68 °F): $< 0,001$ hPa (> 0 mm Hg)
- Density at 20 °C (68 °F): $0,85$ g/cm³ (7.0933 lbs/gal)
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not determined.
- 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
- 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**: oxidizing agents
- **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:

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

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

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

Irritation of eyes	OECD	- (rabbit)
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Sensitization:

No sensitizing effects known.

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:

The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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)
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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/ Zebraabrling)
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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

Dispose of contents/container in accordance with local/regional/national/international regulations.

Uncleaned packagings:

Recommendation:

Non contaminated packagings can be treated like household garbage.

14 Transport information

UN-Number

DOT, ADR, ADN, IMDG, IATA	Void
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UN proper shipping name

DOT, ADR, ADN, IMDG, IATA	Void
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- **Transport hazard class(es)**
- DOT, ADR, ADN, IMDG, IATA
- Class Void
- **Packing group**
- DOT, ADR, IMDG, IATA Void
- **Environmental hazards:**
- Marine pollutant: No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** Void

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):

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

- 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 established by ACGIH)

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

Void

- Hazard pictograms

Void

- Signal word

Void

- Hazard statements

Void

- **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

- * Data compared to the previous version altered.