

# Safety Data Sheet

according to Hazardous Products Regulations (HPR; SOR/2015-17)

Trade name : NMO241  
Revision date : 05.09.2024  
Print date : 05.09.2024

Version : 1.0.1

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

### 1.1 Product identifier

NMO241

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

#### Relevant identified uses

Metal working fluids  
Lubrication at high energy conditions in metal working operations

#### Uses advised against

No information available.

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

#### Supplier (manufacturer/importer/downstream user/distributor)

CNCmarket.ca Inc.

Street : 2360 Portland Street SE

Postal code/City : Calgary, AB, T2G5S2

Telephone : +1 825 454 66 97

E-mail address : [info@CNCmarket.ca](mailto:info@CNCmarket.ca)

### 1.4 Emergency telephone number

Chemtrec: **1-800-424-9300** (24h/7d)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to HPR (SOR/2015-17)

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

### 2.2 Label elements

#### Labelling according to HPR (SOR/2015-17)

##### Hazard pictograms



Exclamation mark (GHS07)

##### Signal word

Warning

##### Hazard statements

H319 Causes serious eye irritation.

##### Precautionary statements

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards

#### Adverse environmental effects

Contains no substance(s) known to have endocrine disrupting properties.

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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Description

Base Oil and Additives

##### Hazardous ingredients

Paraffin oils (petroleum), catalytic dewaxed light ; CAS No. : 64742-71-8

Weight fraction :  $\geq 50 - < 60 \%$

Classification: Asp. Tox. 1 ; H304

Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu) esters, zinc salts ; CAS No. : 68442-22-8

Weight fraction :  $\geq 1 - < 2,5 \%$

Classification: Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 Aquatic Chronic 2 ; H411

2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0

Weight fraction :  $< 1,0 \%$

Classification: Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Benzenesulfonic acid, C10-16-alkyl derivs.,calcium salts ; CAS No. : 68584-23-6

Weight fraction :  $< 0,5 \%$

Classification: Skin Sens. 1B ; H317

Specific Conc. Limits : Skin Sens. 1B ; H317: C  $\geq 10 \%$

##### Further ingredients

The highly refined mineral oil contains less than 3% (w/w) DMSO-extract, according to IP 346 and is not considered to be carcinogenic.

##### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

##### Following inhalation

Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

##### In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash with plenty of water and soap. In case of skin irritation, consult a physician.

##### After eye contact

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.

##### Following ingestion

Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with water. Where appropriate artificial ventilation.

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray, Water mist,

#### Unsuitable extinguishing media

Strong water jet

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Smoke and other incomplete combustion products.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus.

### 5.4 Additional information

Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Keep away from sources of ignition - No smoking.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3 Methods and material for containment and cleaning up

#### For containment

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up

Clear spills immediately. Wipe up with absorbent material (e.g. cloth, fleece). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. Clean contaminated articles and floor according to the environmental legislation.

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas. Put lids on containers immediately after use. Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists Keep away from sources of ignition - No smoking.

#### Protective measures

##### Measures to prevent fire

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

##### Environmental precautions

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Do not allow to enter into surface water or drains.

### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets.

## 7.2 Conditions for safe storage, including any incompatibilities

### Packaging materials

Only use containers specifically approved for the substance/product.

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect containers against damage.

### Hints on joint storage

Keep away from: Oxidizing agent

### Do not store together with

Food and feedingsstuffs

### Further information on storage conditions

**Recommended storage temperature :** 5 - 40°C / 40 - 105°F.

**Protect against :** Frost Heat. UV-radiation/sunlight Water Humidity.

**Storage stability :** Product may be stored for up to 24 months under described conditions.

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

Base Oil	<b>Alberta Provincial</b> (Canada). <b>OEL:</b> 10 mg/m <sup>3</sup> 15 minutes. Form: mist <b>OEL:</b> 5 mg/m <sup>3</sup> 8 hours. Form: mist  <b>Québec Provincial</b> (Canada). <b>STEV:</b> 10 mg/m <sup>3</sup> 15 minutes. Form: mist <b>TWAEV:</b> 5 mg/m <sup>3</sup> 8 hours. Form: mist
2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0	<b>CA Ontario Provincial</b> (Canada). <b>TWA:</b> 2 mg/m <sup>3</sup> ; 8 hours. Inhalable fraction

**NOTE:** Limits/standards shown for guidance only. Follow applicable regulations

### 8.2 Exposure controls

#### Appropriate engineering controls

Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### Personal protection equipment

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

#### Eye/face protection

Eye glasses with side protection EN 166

#### Skin protection

##### Hand protection

Tested protective gloves must be worn: DIN EN 374 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.

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### Suitable material :

Wearing time with permanent contact:

Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), PVA (Polyvinyl alcohol),

Thickness of the glove material: 0,70 mm

Breakthrough time (maximum wearing time): > 480 min

Wearing time with occasional contact (splashes):

Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), PVA (Polyvinyl alcohol),

Thickness of the glove material: 0,40 mm

Breakthrough time (maximum wearing time): > 30 min

**Breakthrough time (maximum wearing time):** : 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. Check leak tightness/impermeability prior to use.

### Body protection

Body protection: not required. If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

### Respiratory protection

Usually no personal respiratory protection necessary.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist formation.

### General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Wash contaminated clothing prior to re-use. Do not put any product-impregnated cleaning rags into your trouser pockets. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid

**Colour :** light yellow

**Odour :** characteristic

### Safety characteristics

**Melting point/freezing point :**

No data available

**Initial boiling point and boiling range :** ( 1013 hPa ) >

220 °C

**Flammability:**

flammable

**Lower explosion limit :**

0,6 Vol-%

**Upper explosion limit :**

6,5 Vol-%

**Flash point :**

190 °C

DIN EN ISO 2592

**Auto-ignition temperature :**

220 °C

**Decomposition temperature :**

not determined

**pH :**

No data available

**Cinematic viscosity :**

24 mm<sup>2</sup>/s

DIN EN ISO 3104

**Water solubility :**

practically insoluble

**log P O/W :**

not applicable

**Vapour pressure :**

No data available

**Density :**

0,875 g/cm<sup>3</sup>

DIN EN ISO 12185

**Relative vapour density :**

No data available

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

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## 10.1 Reactivity

No information available.

## 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

## 10.3 Possibility of hazardous reactions

No information available.

## 10.4 Conditions to avoid

No information available.

## 10.5 Incompatible materials

Oxidising agent, strong.

## 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes

Toxicological data are not available. The statement is derived from the properties of the single components.

#### Acute toxicity

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

##### Acute oral toxicity

Parameter :	LD50 ( Paraffin oils (petroleum), catalytic dewaxed light ; CAS No. : 64742-71-8 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ( 2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2930 mg/kg
Method :	OECD 401

##### Acute dermal toxicity

Parameter :	LD50 ( Paraffin oils (petroleum), catalytic dewaxed light ; CAS No. : 64742-71-8 )
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( 2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Method :	OECD 402

##### Acute inhalation toxicity

Parameter :	LC50 ( Paraffin oils (petroleum), catalytic dewaxed light ; CAS No. : 64742-71-8 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 8,5 mg/l
Exposure time :	8 h

#### Corrosion

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

#### Respiratory or skin sensitisation

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

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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### Carcinogenicity

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

### Germ cell mutagenicity

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

#### STOT SE 1 and 2

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

### STOT-repeated exposure

#### STOT RE 1 and 2

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

### Aspiration hazard

Based on available data, the classification criteria are not met. Based on physico-chemical properties of the material. For viscosity data, see section 9.

## 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

For the product ecotoxicological data are not available. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

#### Aquatic toxicity

Harmfull to aquatic organisms.

#### Acute (short-term) fish toxicity

Parameter : LC50 ( 2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0 )  
Species : Danio rerio (zebrafish)  
Effective dose : > 0,57 mg/l  
Exposure time : 96 h  
Evaluation : Very toxic to fish.

#### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( 2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0 )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 0,17 mg/l  
Exposure time : 48 h  
Evaluation : Very toxic to daphnia.

#### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : IC50 ( 2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0 )  
Species : Desmodesmus subspicatus  
Effective dose : > 0,42 mg/l  
Exposure time : 72 h  
Evaluation : Very toxic to algae.

## 12.2 Persistence and degradability

#### Abiotic degradation

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

#### Biodegradation

Moderately/partially biodegradable.

## 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

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## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

Damage can be caused through mechanical influence of the product (eg. sticking).

## 12.8 Additional ecotoxicological information

Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal. Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled. Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

## SECTION 14: Transport information

### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

National regulations Canada

**NFPA Hazard ID:** Health: 2; Flammability: 1; Reactivity: 1

**HMIS Hazard ID:** Health: 2; Flammability: 1; Reactivity: 1

**CEPA:** All components of this product are either on the Domestic Substance List (DSL) or are exempt.

This material is considered to be hazardous according to regulatory guidelines.

This product has been classified in accordance with hazard criteria of the Hazardous Products Regulations (HPR) SOR/2015-17 and the SDS contains all the information required by the HPR SOR/2015-17.

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### 15.2 Chemical Safety Assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 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)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
GHS: Globally Harmonized System on the Classification and Labelling of Chemicals  
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
EC50: Effective concentration, 50 percent  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

### 16.3 Key literature references and sources for data

Sources of information used in preparing this SDS included one or more of the following: Product Dossiers and SDS from suppliers, complemented by public sources, as appropriate (GESTIS, the EU IUCLID Data Base, U.S. NTP publications, e.g.).

### 16.4 Classification for mixtures and used evaluation method

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### 16.6 Training advice

Provide adequate information, instruction and training for operators.

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.