Safety Data Sheet

according to OSHA Hazard Communication Standards (HCS 2012); 29 CFR 1910.1200

Trade name :	NHO051		
Revision date :	22.03.2023	**Version (Revision) :**	3.0.1 (2.0.1)
Print date :	22.03.2023		

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

1.1 Product identifier

NHO051

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

Relevant identified uses

Metal working fluids

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 : 4115 61 Ave SE #2

Postal code/city : Calgary, AB T2C 1Z6, Canada

Telephone : +1 825 454 66 97

E-mail address : 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 OSHA HCS 2012 (29 CFR 1910.1200)

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling according to OSHA HCS 2012 (29 CFR 1910.1200)

Hazard pictograms

Health hazard (GHS08)

Signal word

Danger

Hazard components for labelling

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics

Hazard statements

H304	May be fatal if swallowed and enters airways.

Precautionary statements

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents and container in accordance with all local and national regulations.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Preparation of solvent refined mineral oils with low content of aromatic hydrocarbons and additives.

Hazardous ingredients

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics ; EC No. : 934-956-3

Weight fraction :	95 - 100 %
Classification :	Asp. Tox. 1 ; H304

Amines, C12-14-tert-alkyl, mixed sec-Bu and iso-Bu phosphate ; EC No. : 306-227-4; CAS No. : 96690-34-5

Weight fraction :	0,5 - 1 %
Classification :	Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

2,6-DI-TERT-BUTYL-P-CRESOL ; EC No. : 204-881-4; CAS No. : 128-37-0

Weight fraction :	0,5 - 1 %
Classification :	Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of H-phrases: 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.

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.

After ingestion

Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with water. Where appropriate artificial ventilation. Observe risk of aspiration if vomiting occurs.

Self-protection of the first aider

No direct artificial respiration to be given by first aider. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.
No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: Cough, Respiratory complaints, Dyspnoea, Fever, Symptoms can occur only after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, Extinguishing powder, Carbon dioxide (CO2), 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 (CO2), Carbon monoxide, Nitrogen oxides (NOx), Smoke and other incomplete combustion products.

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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. Vapours can form explosive mixtures with air. Remove all sources of ignition.

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 (eg. cloth, fleece). Absorb with liquid-binding material (e.g. 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. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools.

Protective measures

Measures to prevent fire

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharges.

Environmental precautions

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.

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: Oxidising agent

Do not store together with
Food and feedingstuffs

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

OIL MIST, MINERAL	**ACGIH TLV (United States)** TWA: 5 mg/m^3; 8 hours. Form: Inhalable fraction **NIOSH REL (United States)** TWA: 5 mg/m^3; 10 hours. STEL: 10 mg/m^3; 15 min. **OSHA PEL (United States)** TWA: 5 mg/m^3; 8 hours.
2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0	**ACGIH TLV (United States)** TWA: 10 mg/m^3 **NIOSH REL (United States)** TWA: 10 mg/m^3

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 DIN EN 166

Skin protection
Hand protection
Hand protection is not required.
By long-term hand contact: Wear suitable gloves. 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. Check leak tightness/impermeability prior to use.
Do not wear gloves near rotary machines and tools.

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.

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 respirative 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.

Suitable respiratory protection apparatus

Combination filtering device (EN 14387)

General health and safety measures

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 : yellow

Odour : characteristic

Safety relevant basis data

pH :			not applicable		
Melting point/melting range :			No data available		
Initial boiling point and boiling range :	(1013 hPa)	>	270 °C / 518 °F		
Flash point :		>	140 °C / 284 °F		DIN EN ISO 2592
Pour Point:		<	-10 °C / 14 °F		
Lower explosion limit :			0,6	Vol-%	
Upper explosion limit :			6,5	Vol-%	
Vapour Density (Air = 1):			no data available		
Evaporation Rate :			no data available		
Density :	(15 °C)		0,824 6,8766	g/cm³ lb/gal	DIN EN ISO 12185
Water solubility :	(20 °C)		insoluble		
log P O/W :			not applicable		
Ignition temperature :		>	220 °C / 428 °F		
Cinematic viscosity :	(40 °C)	approx.	5	mm²/s	DIN EN ISO 3104
Decomposition temperature :			No data available		
Odour threshold :			No data available		
Oxidizing Properties:			not oxidising		
Flammable solids :	Not applicable.				
Explosive properties :	Not explosive according to EU A.14.				

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity
No information available.

10.2 Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions
No known hazardous reactions.

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 toxicological effects
Toxicological data are not available. The statement is derived from the properties of the single components. Data apply to the main component.

Acute effects
No data available to indicate product may be an acute toxic oral, dermal or inhalation hazard.

Acute oral toxicity

Parameter :	LD50 (Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 3160 mg/kg
Method :	OECD 402

Acute inhalation toxicity

Parameter :	LC50 (Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 5 mg/l
Method :	OECD 403

Irritant and corrosive effects
Not an irritant.

Primary irritation to the skin

Parameter :	Primary irritation to the skin (Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics)
Species :	Rabbit
Result :	Mild effects but not relevant for classification.

Irritation to eyes

Parameter :	Irritation to eyes (Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics)
Species :	Rabbit
Result :	Mild effects but not relevant for classification.

Sensitisation

not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

no known significant effects or critical hazards.

Germ cell mutagenicity

no known significant effects or critical hazards.

Reproductive toxicity

no known significant effects or critical hazards.

STOT-single exposure

STOT SE 1 and 2

Not expected to cause organ damage from a single exposure.

STOT-repeated exposure

STOT RE 1 and 2

Not expected to cause organ damage from prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways. Based on physico-chemical properties of the material. For viscosity data, see section 9.

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

Harmful to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter :	LC50 (Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics)
Effective dose :	> 1208 mg/l
Evaluation :	Harmless to fish up to the concentration tested.
Method :	OECD 203
Parameter :	LC50 (2,6-DI-TERT-BUTYL-P-CRESOL ; CAS No. : 128-37-0)
Species :	Brachydanio rerio (zebra-fish)
Effective dose :	> 0,57 mg/l
Exposure time :	96 h
Evaluation :	Very toxic to fish.

Acute (short-term) daphnia toxicity

Parameter :	EC50 (Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics)
Effective dose :	> 3193 mg/l
Evaluation :	Harmless to daphnia up to the tested concentration.
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) algae toxicity

Parameter :	ErC50 (Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cycloalkanes, < 0,03% aromatics)
Effective dose :	> 10000 mg/l
Evaluation :	Harmless to algae up to the concentration tested.
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

Physicochemical elimination

Poorly watersoluble, organic product. Can be mechanically precipitated to a large extent in biological sewage plants.

Biodegradation

Part of the components is biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

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 Other adverse effects

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

12.7 Additional ecotoxicological information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste treatment options

Appropriate disposal / Product

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

Appropriate disposal / Package

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

Other disposal recommendations

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

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

US Regulations

NFPA Hazard ID:	Health: 2	Flammability: 1	Reactivity: 1
HMIS Hazard ID:	Health: 2	Flammability: 1	Reactivity: 1

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

Revision date: 22.03.2023

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

Updates made in accordance with implemantation of GHS requirements.

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
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 Relevant H-phrases (Number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

16.5 Training advice

Provide adequate information, instruction and training for operators.

16.6 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.