



### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : ND-Oil 12  
Product code : 9024

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

##### Importer

Toyota Motor North America  
6565 Headquarters Drive  
Plano, TX 75024  
USA  
T 469-292-4000

##### Manufacturer

Idemitsu Kosan Co., Ltd  
1-1 3-Chome  
Marunouchi  
Chiyoda-ku, Tokyo 100-8321  
Japan  
T +81-3-3213-3143

#### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day, 7 Day/week  
Globally and within USA and Canada (English): +1-703-527-3887  
Mexico (Multilingual): +52 55 8526 4930  
Chemtrec Customer Number (CCN): 22536

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

##### GHS US classification

Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child
Full text of H statements : see section 16		

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H317 - May cause an allergic skin reaction  
H361 - Suspected of damaging fertility or the unborn child  
Precautionary statements (GHS US) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Polyether compounds*	CAS-No.: Trade Secret	85 – 95	Skin Sens. 1, H317
Additive*	CAS-No.: Trade Secret	< 5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Aliphatic hydrocarbons*	CAS-No.: Trade Secret	< 5	Asp. Tox. 1, H304
Epoxides*	CAS-No.: Trade Secret	< 5	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phosphoric acid esters*	CAS-No.: Trade Secret	< 5	Repr. 2, H361 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store locked up.
Packaging materials	: Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

<b>Hand protection:</b>
Protective gloves
<b>Eye protection:</b>
Safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
[In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Color	: Light yellow
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available

# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Boiling point	: > 240 °C
Flash point	: 182 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.985 g/m <sup>3</sup> @15C
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 39.45 mm <sup>2</sup> /s @40C / 9.079 mm <sup>2</sup> /s @ 100C
Viscosity, dynamic	: No data available
Explosion limits	: Lower explosion limit: 1 vol % Upper explosion limit: 7 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the release of irritating gases and vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Aliphatic hydrocarbons	
LD50 oral rat	> 5050 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight
LC50 Inhalation - Rat	> 40.2 mg/l

# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aliphatic hydrocarbons	
LC50 Inhalation - Rat (Vapours)	6.4 mg/l Source: OECD Screening Information Data Set
ATE US (vapors)	6.4 mg/l/4h

Epoxides	
LD50 oral rat	> 5000 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight

Phosphoric acid esters	
LD50 oral rat	> 20000 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified.

Phosphoric acid esters	
LOAEL (oral,rat,90 days)	50 mg/kg body weight Animal: rat
STOT-repeated exposure	May cause damage to organs (nervous system) through prolonged or repeated exposure.

Aspiration hazard	: Not classified
Viscosity, kinematic	: 39.45 mm <sup>2</sup> /s @40C / 9.079 mm <sup>2</sup> /s @ 100C

Aliphatic hydrocarbons	
Viscosity, kinematic	4.03 mm <sup>2</sup> /s (20 °C)

Epoxides	
Viscosity, kinematic	3.33 mm <sup>2</sup> /s (20 °C)

Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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Aliphatic hydrocarbons	
LC50 - Fish [1]	> 0.0034 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )
EC50 - Crustacea [1]	> 0.0028 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 - Crustacea [2]	4.4 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	> 0.00093 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )

# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Epoxides	
LC50 - Fish [1]	1.11 mg/l <i>Poecilia reticulata</i>
EC50 - Crustacea [1]	0.171 mg/l 48 h, <i>Daphnia magna</i> ,
EC50 72h - Algae [1]	0.52 mg/l (OECD 201: Alga, Growth Inhibition Test, <i>Desmodesmus subspicatus</i> , Static system, Fresh water, Experimental value, Growth rate)
Phosphoric acid esters	
LC50 - Fish [1]	0.6 mg/l
EC50 - Crustacea [1]	146 µg/l Test organisms (species): <i>Daphnia magna</i>
LC50 - Fish [2]	44.8 mg/l
NOEC (chronic)	0.1 mg/l

### 12.2. Persistence and degradability

ND-Oil 12	
Persistence and degradability	Not rapidly degradable
Additive	
Persistence and degradability	Not rapidly degradable
Aliphatic hydrocarbons	
Persistence and degradability	Readily biodegradable in water.
Epoxides	
Persistence and degradability	Biodegradability in soil: no data available, Readily biodegradable in water.
Polyether compounds	
Persistence and degradability	Not rapidly degradable
Phosphoric acid esters	
Persistence and degradability	Readily biodegradable in water.

### 12.3. Bioaccumulative potential

Aliphatic hydrocarbons	
BCF - Fish [1]	23.44 ( <i>Pimephales promelas</i> , Fresh water, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	8.06 (Literature study, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Epoxides	
Partition coefficient n-octanol/water (Log Pow)	5.9
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
Phosphoric acid esters	
Partition coefficient n-octanol/water (Log Pow)	5.11

### 12.4. Mobility in soil

Additive	
Mobility in soil	140400

# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aliphatic hydrocarbons	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	6.63 (log Koc, QSAR)
Ecology - soil	Adsorbs into the soil.
Epoxides	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. Proper Shipping Name</b>		
Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

### 14.6. Special precautions for user

**DOT**  
Not regulated

**IMDG**  
Not regulated

**IATA**  
Not regulated



# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

#### CANADA

##### Additive

Listed on the Canadian DSL (Domestic Substances List)

##### Aliphatic hydrocarbons

Listed on the Canadian DSL (Domestic Substances List)

##### Epoxides

Listed on the Canadian NDSL (Non-Domestic Substances List)

##### Polyether compounds

Listed on the Canadian DSL (Domestic Substances List)

##### Phosphoric acid esters

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

##### Phosphoric acid esters

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

There are no components listed on the CAL/OSHA CCR Title 8 Section 339 Regulatory List

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 20/12/2024

#### Full text of H-phrases

H304	May be fatal if swallowed and enters airways
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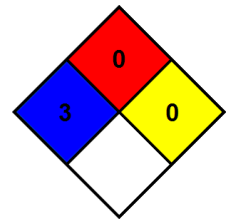
# ND-Oil 12

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

- NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Safety Data Sheet (SDS), USA - TMNA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.