



# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** NEO DECANOIC ACID, PRIME  
**Product Description:** Carboxylic Acid  
**Intended Use:** Chemical intermediate

### COMPANY IDENTIFICATION

**Supplier:** UNION PETROCHEMICAL PUBLIC COMPANY LIMITED  
728 Union House Building, Baromratchonnani Rd.,  
Bangbumru, Bangplad, Bangkok 10700  
**Supplier General Contact:** +662 881 8288

This (M)SDS is a generic document with no country specific information included.

## SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to UN GHS Criteria. Classification includes all GHS hazard classes. For hazard categories with two cut-off/concentration limits, classification was based on the higher limit.

### GHS CLASSIFICATION:

Acute oral toxicant: Category 5.

### GHS LABEL ELEMENTS:

**Pictogram:** No Pictogram

**Signal Word:** Warning

### Hazard Statements:

Health: H303: May be harmful if swallowed.

### Precautionary Statements:

Response: P312: Call a POISON CENTER or doctor/physician if you feel unwell.

**Contains:** NEODECANOIC ACID

### Other hazard information:

### PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

### HEALTH HAZARDS

May be irritating to the eyes, nose, throat, and lungs. Repeated exposure may cause skin dryness or cracking.



## ENVIRONMENTAL HAZARDS

No significant hazards.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a substance.

### Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
NEODECANOIC ACID	26896-20-8	100%	H303

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## SECTION 4 FIRST AID MEASURES

### INHALATION

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

### SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

### INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

### ACUTE AND DELAYED SYMPTOMS/EFFECTS

See Toxicological Section

## SECTION 5 FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight streams of water

### FIRE FIGHTING

**Fire Fighting Instructions:** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces,



self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Incomplete combustion products, Oxides of carbon, Smoke, Fume

#### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** 122°C (252°F) [ASTM D-92]  
**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D  
**Autoignition Temperature:** 440°C (824°F)

### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

#### PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

#### SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do so without risk. Do not touch or walk through spilled material. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### ENVIRONMENTAL PRECAUTIONS

**Large Spills:** Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

### SECTION 7 HANDLING AND STORAGE

#### HANDLING

Avoid contact with skin. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Prevent small spills and leakage to avoid slip hazard. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

**Loading/Unloading Temperature:** [Ambient]

**Transport Temperature:** [Ambient]

**Transport Pressure:** [Ambient]



**Static Accumulator:** This material is not a static accumulator.

## STORAGE

Do not store in open or unlabelled containers.

**Storage Temperature:** [Ambient]

**Storage Pressure:** [Ambient]

**Suitable Materials and Coatings (Chemical Compatibility):** Stainless Steel; Polyethylene; Aluminium; Polypropylene; Phenolic Coatings

**Unsuitable Materials and Coatings:** Amine Epoxy; Copper; Inorganic Zinc; Polyamide; Epoxies

## SECTION 8

## EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters/Exposure limits:**

**Exposure limits/standards (Note: Exposure limits are not additive)**

Substance Name	Form	Limit/Standard		Note	Source	Year
NEODECANOIC ACID		TWA	25 mg/m <sup>3</sup>		ExxonMobil	2016
NEODECANOIC ACID	Stable Aerosol.	TWA	5 mg/m <sup>3</sup>		ExxonMobil	2016

### Biological limits

No biological limits allocated.

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

### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded.

### PERSONAL PROTECTION

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.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator Type A filter material.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical-resistant gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves.



**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

### GENERAL INFORMATION

**Physical State:** Liquid  
**Form:** Clear  
**Colour:** Colourless  
**Odour:** Characteristic  
**Odour Threshold:** N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density:** N/D  
**Density (at 20°C):** 911 kg/m<sup>3</sup> (7.6 lbs/gal, 0.91 kg/dm<sup>3</sup>)  
**Flammability (Solid, Gas):** N/A  
**Flash Point [Method]:** 122°C (252°F) [ASTM D-92]  
**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D  
**Autoignition Temperature:** 440°C (824°F)  
**Boiling Point / Range:** 243°C (469°F) - 253°C (487°F)  
**Decomposition Temperature:** N/D  
**Vapour Density (Air = 1):** > 1 at 101 kPa  
**Vapour Pressure:** [N/D at 20°C] | 0.562 kPa (4.22 mm Hg) at 100°C | 0.029 kPa (0.22 mm Hg) at 50°C  
**Evaporation Rate (n-butyl acetate = 1):** < 1  
**pH:** N/D  
**Log Pow (n-Octanol/Water Partition Coefficient):** N/D  
**Solubility in Water:** Negligible  
**Viscosity:** [N/D at 40°C] | 40 cSt (40 mm<sup>2</sup>/sec) at 20°C  
**Oxidizing Properties:** See Hazards Identification Section.

### OTHER INFORMATION

**Freezing Point:** -39°C (-38°F)  
**Melting Point:** N/A  
**Molecular Weight:** 174 [Calculated]  
**Hygroscopic:** No  
**Coefficient of Thermal Expansion:** 0.0008 per Deg C

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat, High energy sources of ignition.

**MATERIALS TO AVOID:** Aldehydes, Alkanolamines, Alkylene Oxides, Amines, Ammonia, Caustics, Cyanohydrins, Inorganic acids, Monomers, Nitriles, Polymerisable esters, Strong oxidisers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**INFORMATION ON TOXICOLOGICAL EFFECTS**

<u>Hazard Class</u>	<u>Conclusion/Remarks</u>
<b>Inhalation</b>	
Acute Toxicity: (Rat) 6 hour(s) LC50 > 3 mg/l (Vapour)	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 403
Irritation: Data available.	Elevated temperatures or mechanical action may form vapours, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
<b>Ingestion</b>	
Acute Toxicity (Rat): LD 50 2066 mg/kg	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 401
<b>Skin</b>	
Acute Toxicity (Rabbit): LD50 > 3640 mg/kg	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 402
Skin Corrosion/Irritation: Data available.	May dry the skin leading to discomfort and dermatitis. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 404
<b>Eye</b>	
Serious Eye Damage/Irritation: Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 405
<b>Sensitisation</b>	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer
Skin Sensitization: Data available.	Not expected to be a skin sensitizer. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 406
<b>Aspiration:</b> Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> Data available.	Not expected to be a germ cell mutagen. Based on test data for the materials. Test(s) equivalent or similar to OECD Guideline 471 473
<b>Carcinogenicity:</b> No end point data for material.	Not expected to cause cancer.
<b>Reproductive Toxicity:</b> Data available.	Not expected to be a reproductive toxicant. Based on test data for the materials. Test(s) equivalent or similar to OECD Guideline 414 416
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.
<b>Specific Target Organ Toxicity (STOT)</b>	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: Data available.	Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 407 408 410 411 412 413 452



### IARC Classification:

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = IARC 1

2 = IARC 2A

3 = IARC 2B

## SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

### ECOTOXICITY

Material – Not expected to be harmful to aquatic organisms.

Material – Not expected to demonstrate chronic toxicity to aquatic organisms.

### MOBILITY

Material -- Expected to partition to water. Some partitioning to sediment and wastewater solids. Minimally volatile.

### PERSISTENCE AND DEGRADABILITY

#### Biodegradation:

Material -- Expected to biodegrade slowly.

#### Hydrolysis:

Material -- Transformation due to hydrolysis not expected to be significant.

#### Photolysis:

Material -- Transformation due to photolysis not expected to be significant.

#### Atmospheric Oxidation:

Material -- Expected to degrade rapidly in air

### ECOLOGICAL DATA

#### Ecotoxicity

Test	Duration	Organism Type	Test Results
Aquatic – Acute Toxicity	48 hour(s)	Daphnia magna	EL50 > 1000 mg/l
Aquatic – Acute Toxicity	72 hour(s)	Oncorhynchus mykiss	LL50 > 100 - <300 mg/l
Aquatic – Acute Toxicity	96 hour(s)	Pseudokirchneriella subcapitata	EL50 > 100 mg/l
Aquatic – Chronic Toxicity	21 day(s)	Daphnia magna	NOEC 4.78 mg/l
Aquatic – Chronic Toxicity	21 day(s)	Daphnia magna	LOEC 10.1 mg/l
Aquatic – Chronic Toxicity	14 day(s)	Oncorhynchus mykiss	NOEC > 2.22 mg/l

#### Persistence, Degradability and Bioaccumulation Potential

Media	Test Type	Duration	Test Results
Air	Photolysis		Half-life (t1/2) 13.9 hour(s)
Sediment	Sediment Adsorption		log Koc 2.08
Water	Ready Biodegradability	28 day(s)	Percent Degraded 11
Water	Bioaccumulation	14 day(s)	BCF < 225

## SECTION 13 DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.



## DISPOSAL RECOMMENDATIONS

Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

## SECTION 14

## TRANSPORT INFORMATION

**LAND (ADR/RID):** Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code  
**Marine Pollutant:** No

### SEA (MARPOL 73/78 Convention – Annex II)

**Product Name:** NEODECANOIC ACID  
**Ship type:** 2  
**Pollution category:** Y

**AIR (IATA):** Not Regulated for Air Transport

## SECTION 15

## REGULATORY INFORMATION

Material is hazardous according to UN GHS Criteria.

### REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories: AICS, DSL, ENCS, IECSC, KECI, PICCS, TCSI, TSCA

## SECTION 16

## OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

### KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H303: May be harmful if swallowed; Acute Tox Oral, Cat 5

### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

No revision information.

Revision Date: 16 Jan 2017

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