

# SAFETY DATA SHEET DYNATRANS ACX 50

**SDS #**: 088070

### **Section 1. Identification**

Product identifier : DYNATRANS ACX 50

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

**Identified uses** 

Transmission fluids

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Supplier's details

▼otalEnergies Marketing Asia-Pacific Middle East Pte. Ltd.

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ms.ap-sds@totalenergies.com

Emergency telephone number (with hours of operation)

Asia-Pacific: +65 3158 1074

Section 2. Hazards identification

Classification of the substance or mixture

: Not classified.

GHS label elements, including precautionary statements

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
penzenesulfonic acid, 4-(branched alkyl derivs.) and benzenesulfonic acid,	≤1	-
4-(linear alkyl dervis.), calcium salts		
Phenol, dodecyl-, branched	<0.3	121158-58-5
Nonylphenol, branched, ethoxylated	≤0.3	68412-54-4

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Additional information

: Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Chemical formula : Not applicable.

### Section 4. First aid measures

#### Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

**Skin contact**: Wash skin thoroughly with soap and water or use recognized skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

Ingestion : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

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### Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** media

: Do not use water jet.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.

: carbon monoxide carbon dioxide Silicon Dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

**Advice on general** occupational hygiene

- Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

None.

#### Occupational exposure limits Philippines

Product/substance	Exposure limit values
istillates (petroleum), hydrotreated heavy paraffinic	TLV = Threshold Limit Value (Philippines, 4/2016). TLV: 5 mg/m³ 8 hours.
Residual oils (petroleum), hydrotreated	TLV = Threshold Limit Value (Philippines, 4/2016). TLV: 5 mg/m <sup>3</sup> 8 hours.
Residual oils (petroleum), solvent-dewaxed	TLV = Threshold Limit Value (Philippines, 4/2016). TLV: 5 mg/m³ 8 hours.

### **Advisory OEL**

: Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

### Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### **Skin protection**

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 Hand protection
 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates

this is necessary.

Hydrocarbon-proof gloves

Fluorinated rubber nitrile rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

abrasion, and the contact time.

**Body protection**: Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**Respiratory protection**: Mone under normal use conditions If these are not sufficient to maintain exposure

below the OEL, suitable respiratory protection must be worn (Type A/P1).

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

**Appearance** 

Physical state : Liquid.

Color : Ørange. [Dark]
Odor : Characteristic.
Odor threshold : Not available.

PH : Not available.

Melting point/freezing point : Not available.

Boiling point : Not available.

Flash point : Open cup: 268°C (514.4°F) [ASTM D 92]

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 0.896 [ASTM D 4052]

**Density** : **0**.896 g/cm³ [15°C] [ASTM D 4052]

**Solubility** : Insoluble in the following materials: cold water and hot water.

Miscible with water : No.

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): 221 mm²/s (221 cSt) [ASTM D 445]

Flow time (ISO 2431) : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

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### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: Stable under recommended storage and handling conditions (see Section 7).

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products

: carbon monoxide carbon dioxide Silicon Dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

SADT : Not available.

### **Section 11. Toxicological information**

### Information on toxicological effects

### **Acute toxicity**

Product/substance	Result	Species	Dose	Exposure	Test
Phenol, dodecyl-, branched	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LD50 Dermal	Rabbit - Male	15000 mg/kg	-	OECD 402
	LD50 Oral	Rat - Male,	2100 mg/kg	-	OECD 401
		Female			
Nonylphenol, branched, ethoxylated	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
-	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-
	LD50 Oral	Rat - Male	5000 mg/kg	-	-
	LD50 Oral	Rat - Female	>2000 mg/kg	-	-

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

### **Irritation/Corrosion**

Product/substance	Result	Species	Score	Exposure	Test
Phenol, dodecyl-, branched	Skin - Irritant	Rabbit	-	-	OECD 404
Î .	Eyes - Iris lesion	Rabbit	0	-	OECD 405

Skin
 Eased on available data, the classification criteria are not met.
 Eyes
 Eased on available data, the classification criteria are not met.
 Respiratory
 Eased on available data, the classification criteria are not met.

**Sensitization** 

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Product/substance	Route of exposure	Species	Result
Phenol, dodecyl-, branched	skin	Guinea pig	Not sensitizing

Skin

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

May produce an allergic reaction.

Respiratory

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

**Mutagenicity** 

Product/substance	Test	Experiment	Result
Phenol, dodecyl-, branched	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

Conclusion/Summary

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

**Carcinogenicity** 

**Conclusion/Summary** 

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

Reproductive toxicity

Product/substance	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Phenol, dodecyl-, branched	-	Positive	-		Oral: 15 mg/kg NOAEL	-

**Conclusion/Summary** 

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

### **Teratogenicity**

Product/substance	Result	Species	Dose	Exposure
Phenol, dodecyl-, branched	Positive - Oral	Rat - Female	-	-

Conclusion/Summary

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

### **Specific target organ toxicity (single exposure)**

Not available.

### **Specific target organ toxicity (repeated exposure)**

Not available.

### **Aspiration hazard**

Not available.

Information on the likely

: Not available.

routes of exposure

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

**Ingestion**: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

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Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

**Ingestion**: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
Phenol, dodecyl-, branched	Sub-chronic NOAEL Oral	Rat - Male, Female	60 mg/kg	-

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Phenol, dodecyl-, branched	2100		N/A	N/A	5.1
Nonylphenol, branched, ethoxylated	5000		N/A	20.1	5.1

## **Section 12. Ecological information**

#### **Toxicity**

Product/substance	Result	Species	Exposure	Test
benzenesulfonic acid, 4- (branched alkyl derivs.) and benzenesulfonic acid, 4- (linear alkyl dervis.), calcium salts	Acute EC50 >1000 mg/l	Algae - Selenastrum capricomutum	72 hours	-
	Acute EC50 >1000 mg/l	Daphnia - Cladocere	48 hours	-
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss	96 hours	-
	Acute LC50 >10000 mg/l	Micro-organism - sludge	3 hours	-

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Phenol, dodecyl-, branched	Acute EC50 0.36 mg/l	Algae - Scenedesmus	72 hours	OECD 201	
		subspicatus			
	Acute EC50 0.037 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202	
	Acute LC50 40 mg/l	Fish	96 hours	-	
	Acute NOEC 0.0037 mg/l	Daphnia - Daphnia magna	21 days	OECD 211	
Nonylphenol, branched,	Acute EC50 3 mg/l	Algae -	72 hours	OECD 201	
ethoxylated		Pseudokirchneriella			
-		subcapitata			
	Acute LC50 0.716 mg/l	Daphnia - Ceriodaphnia	48 hours	_	
		dubia			
	Acute LC50 0.323 mg/l	Fish	96 hours	-	
	Acute NOEC 0.1 mg/l	Daphnia - daphnia magna	21 days	OECD 211	
	_				

### **Conclusion/Summary**

: This product contains one or more components that have a branched alkylphenol impurity which is very toxic to aquatic life (disclosed in section 3). Components containing the impurity have been tested and are not toxic to aquatic life. Therefore, the data in Section 3 for the alkylphenol impurity should not be used to classify the product for aquatic toxicity

### Persistence/degradability

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Phenol, dodecyl-, branched Nonylphenol, branched, ethoxylated	-		Not readily Not readily

### **Bioaccumulative potential**

Product/substance	LogKow	BCF	Potential
benzenesulfonic acid, 4- (branched alkyl derivs.) and benzenesulfonic acid, 4- (linear alkyl dervis.), calcium salts	10.88	-	high
Phenol, dodecyl-, branched Nonylphenol, branched, ethoxylated	7.14 5.39	794.33 37	high low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

**Mobility in soil** 

: Given its physical and chemical characteristics, the product generally shows low soil mobility. The product is insoluble and floats on water. Loss by evaporation is limited

### Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may

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retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

	UN	IMDG	ICAO/IATA	ADR/RID	ADN
UN/ID No	Not regulated.				
UN proper shipping name	-	-	-	-	-
Transport hazard class (es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

## Section 15. Regulatory information

### Singapore - hazardous chemicals under government control

None.

### **National regulations**

This Safety Data Sheet (SDS) has been prepared according to Singapore Standard SS 586 on "Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods"

Workplace Safety and Health (General Provision) Regulations

#### **Philippines**

### **National regulations**

This Safety Data Sheet (SDS) has been prepared according to EMB Memorandum Circular on "Guidance Manual for Department Administrative Order 2015-09, Rules and Procedures for the Implementation of GHS in Preparation of SDS and Labelling Requirements of Toxic Chemical Substances"

#### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

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### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **Inventory list**

Australia inventory (AllC)

Canada inventory (DSL/NDSL)

: All components are listed or exempted.

China inventory (IECSC)

: All components are listed or exempted.

**Europe inventory (EINECS/ELINCS/NLP)**: Not determined.

Japan inventory : Japan inventory (CSCL): All components are listed or

exempted.

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals (NZIoC) : MI components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted.

**Korea inventory (KECI)** : MI components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI) : All components are listed or exempted.

Thailand inventory : Not determined.

Turkey inventory : Not determined.

United States inventory (TSCA 8b) : All components are listed or exempted.

Vietnam inventory : Not determined.

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

### Section 16. Other information

**History** 

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**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

### Additional details on the supplier of the product

Total (Philippines) Corporation
7th Floor, 11th Corporate Center
11th Avenue, corner Triangle Drive,
North Bonifacio, Bonifacio Global City
1634 Taguig City
Philippines
Tel: +63 2 88490888
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**References**: Not available.

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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