SAFETY DATA SHEET



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

DYNATRANS DA 80W-90

SDS no. 36470

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

1.1 Product identifier

Product name : DYNATRANS DA 80W-90

Product code : 36470

Product description: Not available.

Product type : Liquid.

Other means of : Not available.

identification

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

Identified uses

Not applicable.

Uses advised against

Not applicable.

Not applicable.

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

rm.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited 10 Upper Bank Street (19th floor)

Canary Wharf, London E14 5BF UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033

rm.gb-msds@totalenergies.com

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : National Poisons Information Service (NPIS): 111

Supplier

Telephone number: Emergency telephone: +44 1235 239670

Hours of operation : Edit the content of sentence <GB Telephone Number - Supplier - Hours of

operation> to define this output

Information limitations : Edit the content of sentence <GB Telephone Number - Supplier - Information

limitations> to define this output

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.

Hazard statements : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: P273 - Avoid release to the environment.

Response : Mot applicable.

Storage : Mot applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label elements

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %. This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

Other hazards which do not result in classification

: Hazard of slipping on spilt product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре
vistillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≤3	Asp. Tox. 1, H304	[1]
Reaction products of 4-methyl- 2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	REACH #: 01-2119493620-38 EC: 931-384-6	≤3	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
Reaction products of alcohols, c14-18, c18 unsat, esterified with phosphorus pentoxide and with amines, c12-14, tert-alkyl	REACH #: 01-2119978530-33 EC: 939-591-3 CAS: 1471315-74-8	≤3	Aquatic Chronic 3, H412	[1]
C16-18-(even numbered, saturated and unsaturated)-alkylamines	REACH #: 01-2119473797-19 EC: 627-034-4 CAS: 1213789-63-9	<1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1]
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol,heptyl derivs.	REACH #: 01-2119971727-23 EC: 939-460-0	≤0.3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
			See Section 16 for the full text of the H statements declared above.	

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard Occupational exposure limits, if available, are listed in Section 8.

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SECTION 4: First aid measures

4.1 Description of 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. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

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

Skin contact Wash skin thoroughly with soap and water or use recognised skin cleanser.

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

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

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

4.2 Most important symptoms and effects, both acute and delayed

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.

4.3 Indication of any immediate medical attention and special treatment needed

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

quantities have been ingested or inhaled.

: No specific treatment. **Specific treatments**

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

: Use dry chemical, CO2, water spray (fog) or foam.

media

: Do not use water jet. **Unsuitable extinguishing**

media

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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SECTION 5: Firefighting measures

Hazardous combustion products

: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 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 spilt material. Put on appropriate personal protective equipment.

For emergency responders: Fspecialised 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".

6.2 Environmental precautions

: Kvoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material 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. Approach the release from upwind. 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 non-combustible, 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. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene 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.

7.2 Conditions for safe storage, including any incompatibilities

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations Not available. : Not available. **Industrial sector specific** solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Reportable hazardous constituent(s) contained in UVCB- and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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)

DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

Product/substance	Type	Exposure	Value	Population	Effects
vistillates (petroleum), hydrotreated	DNEL	Long term	5.58 mg/m ³	Workers	Local
heavy paraffinic	D	Inhalation	0.74	0	O t
	DNEL	Long term Oral	0.74 mg/	General	Systemic
	DAIE	D	kg bw/day	population	0
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
	DAIEI	1 4	kg bw/day	\\/ = =	0
	DNEL	Long term	2.73 mg/m ³	vvorkers	Systemic
	DNIEL	Inhalation	0.74/	Camaral	C. rata maia
	DNEL	Long term Oral	0.74 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day	population Workers	Systemia
	DINEL	Long term Dermai	0.97 mg/	Workers	Systemic
	DNEI	Long torm	kg bw/day	Conoral	Local
	DNEL	Long term Inhalation	1.19 mg/m³	General population	Local
	DNEL	Long term	2.73 mg/m ³		Systemic
	DINEL	Inhalation	2.73 Hig/III	Workers	Systemic
	DNEL	Long term	5.58 mg/m ³	Workers	Local
	DINEL	Inhalation	3.30 mg/m²	4401VC12	LUCAI
Reaction products of 4-methyl-	DNEL	Long term Dermal	12.5 mg/kg	Workers	Systemic
2-pentanol and diphosphorus	DIVLL	Long tomi Demia	12.5 mg/kg	VVOIRCIS	Cystornio
pentasulfide, propoxylated,					
esterified with diphosphorus					
pentaoxide, and salted by amines,					
C12-14- tert-alkyl					
O12 14 tort dikyr	DNEL	Long term	4.28 mg/m ³	Workers	Systemic
	D. 122	Inhalation	1.20 11.9,111	***************************************	Gyotomio
	DNEL	Long term Dermal	6.25 mg/kg	General	Systemic
			0.20g,g	population	
	DNEL	Long term	1.09 mg/m ³		Systemic
		Inhalation	J. 3.	population	
	DNEL	Long term Oral	0.25 mg/	General	Systemic
			day	population	_
	DNEL	Long term Dermal	0.16 mg/	Workers	Local
			cm ²		
Reaction products of alcohols,	DNEL	Long term	1.76 mg/m ³	Workers	Systemic
c14-18, c18 unsat, esterified with		Inhalation			
phosphorus pentoxide and with					
amines, c12-14, tert-alkyl					
	DNEL	Long term Dermal	2.5 mg/kg	Workers	Systemic
	D=:	ļ	bw/day		
	DNEL	Long term	0.434 mg/	General	Systemic
	ראבי	Inhalation	m ³	population	C. /-t:-
	DNEL	Long term Dermal	1.25 mg/	General	Systemic
	חאובי	Long torm Oral	kg bw/day	population	Systemia
	DNEL	Long term Oral	0.25 mg/	General	Systemic
C16-18-(even numbered, saturated	DNEL	Long term Oral	kg bw/day 40 µg/kg	population General	Systemic
and unsaturated)-alkylamines	DINEL	Long term Oral	bw/day	population	Systernic
and unsaturated j-aikyrannies	DNEL	Long term	0.38 mg/m ³		Systemic
	PINEL	Inhalation	0.00 mg/m	VVOINGIO	Сузіснію
	DNEL	Long term	1 mg/m³	Workers	Local
	PINEL	Inhalation	' '''g/'''	VVOINGIO	Local
	DNEL	Short term	1 mg/m³	Workers	Local
		Inhalation	g,		
	DNEL	Long term	0.035 mg/	General	Systemic
					. ,

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SECTION 8: Exposure controls/personal protection

<u> </u>					
		Inhalation	m³	population	
	DNEL	Long term Dermal	0.09 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term Dermal	0.06 %	Workers	Local
	DNEL	Long term	0.035 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	1 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	1 mg/m³	Workers	Local
		Inhalation			
Reaction product of	DNEL	Long term	2.35 mg/m ³	Workers	Systemic
1,3,4-thiadiazolidine-2,5-dithione,		Inhalation			
formaldehyde and phenol,heptyl					
derivs.					
	DNEL	Long term Dermal	66.7 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	0.58 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Long term Dermal	33.33 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Oral	0.33 mg/	General	Systemic
			kg bw/day	population	

PNECs

Product/substance	Compartment Detail	Value	Method Detail
istillates (petroleum), hydrotreated heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl	Fresh water	2.4 µg/l	-
•	Marine water	240 ng/l	-
	Fresh water sediment	12.9 µg/kg dwt	-
	Marine water sediment	1.29 µg/kg dwt	-
	Soil	1.17 µg/kg dwt	-
	Sewage Treatment Plant	24.33 mg/l	-
	Secondary Poisoning	10 mg/kg	-
Reaction products of alcohols, c14-18, c18 unsat, esterified with phosphorus pentoxide and with amines, c12-14, tert-alkyl	Fresh water	0.0024 mg/l	-
•	Marine water	0.00024 mg/l	-
	Fresh water sediment	1085.06 mg/kg dwt	-
	Marine water sediment Soil	108.51 mg/kg dwt 880.82 mg/kg dwt	
	Sewage Treatment Plant	32 mg/l	- -
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Marine water	0.000026 mg/l	-
	Fresh water sediment	3.76 mg/kg dwt	-
	Marine water sediment	0.376 mg/kg dwt	-
	Soil	10 mg/kg	-
	Sewage Treatment Plant	0.55 mg/l	-

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SECTION 8: Exposure controls/personal protection

Reaction product of 1,3,4-thiadiazolidine-		0.026 mg/l	-
2,5-dithione,formaldehyde and phenol,heptyl			
derivs.			
	Marine water	0.0026 mg/l	-
	Fresh water sediment	1108.6 mg/kg dwt	-
	Marine water sediment	110.86 mg/kg dwt	-
	Soil	221.48 mg/kg dwt	-
	Sewage Treatment	45.5 mg/l	-
	Plant		

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.EN 166

Skin protection 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Hydrocarbon-proof gloves

nitrile rubber

Fluorinated 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.

In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

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.

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SECTION 8: Exposure controls/personal protection

Respiratory protection

: Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces In case of inadequate ventilation wear respiratory protection: Type A/P1 Warning! filters have a limited use duration The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses

Environmental exposure

controls

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.

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Colour : Brown.

Odour : Characteristic. : Not available. **Odour threshold**

Melting point/freezing point

Initial boiling point and

boiling range

Flash point

pН

: Technically not possible to measure

: >300°C (>572°F) [ISO 3405]

Flammability (solid, gas) Upper/lower flammability or : Not applicable. : Lower: 0.9% Upper: 7%

explosive limits

: Open cup: 222°C (431.6°F) [ISO 2592] >250°C (>482°F) [ASTM E 659]

Auto-ignition temperature

: Not applicable.

Decomposition temperature

Product is non-soluble (in water). : Not applicable.

: Kinematic (40°C): 1.43 cm²/s [ASTM D 445] **Viscosity**

Solubility(ies)

_						
	Media	Result				
	water	Not soluble				

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : <0.013 kPa (<0.1 mm Hg) [room temperature]

Not applicable. [50°C (122°F)]

Relative density 0.901 [ISO 12185]

: 0.901 g/cm³ [15°C (59°F)] [ISO 12185] **Density**

: >2 [Air = 1] Vapour density

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

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SECTION 10: Stability and reactivity

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

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

10.3 Possibility of : Inder normal conditions of storage and use, hazardous reactions will not occur.

hazardous reactions

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

No smoking.

10.5 Incompatible materials : No specific data.

10.6 Hazardous
 decomposition products
 carbon monoxide
 carbon dioxide
 nitrogen oxides
 phosphorus oxides

phosphorus oxide sulfur oxides Hydrogen sulfide Mercaptans

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
istillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat - Male, Female	>5 mg/l	4 hours	OECD 403 Read across
•	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-	OECD 402 Read across
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
•	LC50 Inhalation Vapour	Rat	80.4 mg/l	1 hours	-
	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	20.1 mg/l 2201 mg/kg 2000 mg/kg	4 hours	- - OECD 401
Reaction products of alcohols, c14-18, c18 unsat, esterified with phosphorus pentoxide and with amines, c12-14, tert-alkyl	LD50 Dermal	Rabbit	>2000 mg/kg	-	OECD 402
C16-18-(even numbered, saturated and unsaturated)-alkylamines	LD50 Oral LC50 Inhalation Dusts and mists	Rat - Female Rat - Male	>2000 mg/kg >0.099 mg/l	- 1 hours	OECD 420 OECD
	LD50 Dermal	Rabbit -	>2000 mg/kg	-	OECD 402

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SECTION 11: Toxicological information

			Male, Female			
		LD50 Oral	Rat - Male,	1689 mg/kg	-	OECD 401
			Female	5 5		
Re	action product of	LD50 Dermal	Rat	>2000 mg/kg	-	OECD 402
1,3	3,4-thiadiazolidine-					
2,5	i-dithione,formaldehyde					
and	d phenol,heptyl derivs.					
		LD50 Oral	Rat	>2000 mg/kg	-	-

Conclusion/Summary

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

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
PYNATRANS DA 80W-90 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	123076.9 2000	N/A 2201	N/A N/A	N/A 20.1	N/A 5.1
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1689	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
16-18-(even numbered, saturated and unsaturated)- alkylamines	Eyes - Severe irritant	Rabbit	-	-	OECD 405
	Skin - Visible necrosis	Rabbit	-	-	OECD 404

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. **Eyes** Respiratory : Based on available data, the classification criteria are not met.

Sensitisation

Product/substance	Route of exposure	Species	Result
	skin	Guinea pig	Not sensitizing

Conclusion/Summary

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
√16-18-(even numbered, saturated and unsaturated)- alkylamines	OECD 471	Experiment: In vitro Subject: Bacteria	Negative

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

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Carcinogenicity

Conclusion/Summary

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

Reproductive toxicity

Product/substance	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
	Negative	Negative	Negative	Rat - Male, Female	Oral	-

Conclusion/Summary

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

Teratogenicity

Product/substance	Result	Species	Dose	Exposure
	Negative - Oral		>30 mg/kg NOAEL	1

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

Specific target organ toxicity (single exposure)

Product/substance	Category	Route of exposure	Target organs
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Category 3		Respiratory tract irritation

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

Specific target organ toxicity (repeated exposure)

Product/substance	Category	Route of exposure	Target organs
€16-18-(even numbered, saturated and unsaturated)-alkylamines	Category 2	-	-

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

Aspiration hazard

Product/substance	Result
istillates (petroleum), hydrotreated heavy paraffinic C16-18-(even numbered, saturated and unsaturated)-alkylamines	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

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

Information on likely routes: Not available.

of exposure

Potential acute health effects

: No known significant effects or critical hazards. **Eye contact** : No known significant effects or critical hazards. Inhalation

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 as well as 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
€16-18-(even numbered, saturated and unsaturated)-alkylamines	Sub-acute LOAEL Dermal	Rat - Male, Female	12.5 mg/kg	-
	Sub-acute NOAEL Oral	Rat - Male, Female	3.25 mg/kg	-

Conclusion/Summary: Not available.

General
 Carcinogenicity
 Mo known significant effects or critical hazards.
 Mutagenicity
 Mo known significant effects or critical hazards.
 Reproductive toxicity
 Mo known significant effects or critical hazards.
 Wo known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

11.2.2 Other information

SECTION 12: Ecological information

12.1 Toxicity

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Product/substance	Result	Species	Exposure	Test
istillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	-
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	Acute EC50 6.4 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours	OECD 201
	Acute EL50 91.4 mg/l	Crustaceans - Daphina Magna	48 hours	OECD 202
	Acute LL50 24 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEC 1.7 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours	OECD 201
	Chronic NOEL 0.12 mg/l	Crustaceans - Daphina Magna	21 days	OECD 211
Reaction products of alcohols, c14-18, c18 unsat, esterified with phosphorus pentoxide and with amines, c12-14, tert-alkyl	Acute EC50 2.4 mg/l	Algae - Pseudokirchnerella subcapitata	72 hours	OECD 201
	Acute EC50 91 mg/l Chronic NOEL 1 mg/l	Daphnia - Daphnia Magna Algae - Pseudokirchnerella subcapitata	48 hours 21 days	OECD 202 OECD 201
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Acute EL50 0.04 mg/l	Algae - Selenastrum capricornutum	72 hours	-
	Acute EL50 0.011 mg/l Acute EL50 222.5 mg/l	Daphnia - Daphnia magna Micro-organism	48 hours 3 hours	-
	Acute LL50 0.06 mg/l	Fish - Pimephales	96 hours	-
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione,formaldehyde and phenol,heptyl derivs.	Chronic NOEL 0.013 mg/l Acute EC50 25 mg/l	Daphnia - Daphnia magna Algae - Pseudokirchnerella subcapitata	21 days 72 hours	-
F	Acute EC50 75 mg/l Acute LC50 26 mg/l Chronic NOEC 0.12 mg/l	Daphnia - Daphnia magna Fish Daphnia - Daphnia magna	48 hours 96 hours 21 days	- - -

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

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SECTION 12: Ecological information

12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
Distillates (petroleum),	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
hydrotreated heavy paraffinic Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide,	STDMETH, ASTM and USEPA	3 % - Not readily - 28 days	-	Activated sludge
and salted by amines, C12-14- tert-alkyl C16-18-(even numbered, saturated and unsaturated)- alkylamines	OECD 301B Ready Biodegradability - CO2 Evolution Test	66 % - Readily - 20 days	-	-

Conclusion/Summary

: Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
☑istillates (petroleum),	-	-	Not readily
hydrotreated heavy paraffinic			
Reaction products of	-	-	Not readily
4-methyl-2-pentanol and			
diphosphorus pentasulfide,			
propoxylated, esterified with			
diphosphorus pentaoxide,			
and salted by amines,			
C12-14- tert-alkyl			
Reaction products of	-	-	Not readily
alcohols, c14-18, c18 unsat,			
esterified with phosphorus			
pentoxide and with amines,			
c12-14, tert-alkyl			
C16-18-(even numbered,	-	-	Readily
saturated and unsaturated)-			-
alkylamines			

12.3 Bioaccumulative potential

Product/substance	LogP _{ow}	BCF	Potential
vistillates (petroleum), hydrotreated heavy paraffinic	>4	-	high
Reaction products of 4-methyl-2-pentanol and	0.3 to 7.1	-	low
diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl Reaction products of	5.7	8	low
alcohols, c14-18, c18 unsat, esterified with phosphorus pentoxide and with amines,			

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c12-14, tert-alkyl

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: 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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised 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.

Hazardous waste

Yes.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only suggestions: 13 02 05*

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C16-18-(even numbered, saturated and unsaturated)- alkylamines)	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN

: The product is only regulated as a dangerous good when transported in tank vessels.

user

14.6 Special precautions for : 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.

14.7 Maritime transport in bulk according to IMO

instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

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SECTION 15: Regulatory information

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture. placing on the market and use of certain

dangerous substances, mixtures and articles

Seveso Directive

his product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

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.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia inventory (AIIC) : All components are listed or exempted. : All components are listed or exempted. Canada inventory : All components are listed or exempted. **China inventory (IECSC)** : MI components are listed or exempted. **Europe inventory**

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

exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand Inventory of Chemicals

(NZIoC)

: All components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted. : All components are listed or exempted. **Korea inventory (KECI) Taiwan Chemical Substances Inventory** : All components are listed or exempted.

(TCSI)

Thailand inventory : Not determined.

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SECTION 15: Regulatory information

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.

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration

LC50 = Median lethal concentration

LD50 = Median lethal dose

OEL = Occupational Exposure Limit VOC = Volatile Organic Compound

UVCB Substance of unknown or Variable composition, Complex reaction products

or Biological material

NOEC No Observed Effect Concentration

QSAR = Quantitative Structure–Activity Relationship

Procedure used to derive the classification

Classification	Justification	
Aquatic Chronic 3, H412	Expert judgment	

Full text of abbreviated H statements

⊮ 302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications

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SECTION 16: Other information

Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1B SKIN SENSITISATION - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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