

1.1. Product identifier	ce/mixture and of the company/undertaking	
Product form	: Mixture	
	: alpha ENGINE FLUSH	
Product code	: 311154	
1.2. Relevant identified uses of the substance		
<b>1.2.1. Relevant identified uses</b> No additional information available		
1.2.2. Uses advised against No additional information available		
1.3. Details of the supplier of the safety data	sheet	
Gulf Western Asia PTE Ltd 105 Cecil Street, #24-02 The Octagon, Postal 069534 Singapore	,	
1.4. Emergency telephone number		
	el Nr +65 90302232	
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtur	e	
Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified		
Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety		
practice.		
2.2. Label elements		
Labelling according to Regulation (EC) No. 1272/20 EUH-statements	<ul> <li>CLP]</li> <li>EUH210 - Safety data sheet available on request.</li> <li>EUH208 - Contains C14-16-18 Alkyl phenol(1190625-94-5). May produce an allergic reaction.</li> </ul>	
2.3. Other hazards		
No additional information available		
SECTION 3: Composition/information on	ingredients	
3.1. Substances Not applicable		
3.2. Mixtures		

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).]	(CAS-No.) 64742-65-0 (EC-No.) 265-169-7 (EC Index-No.) 649-474-00-6 (REACH-no) 01-2119471299-27	>= 75	Not classified
C14-16-18 Alkyl phenol	(CAS-No.) 1190625-94-5 (EC-No.) 931-468-2 (REACH-no) 01-2119498288-19	0,05 - 1	Skin Sens. 1B, H317 STOT RE 2, H373
Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts	(CAS-No.) 68457-79-4 (EC-No.) 270-608-0 (REACH-no) 01-2119493628-22	0,05 - 0,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411



Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts		(C >= 3) Eye Dam. 1, H318 (C >= 15) Skin Irrit. 2, H315

Full text of H-statements: see section 16

SECTION 4: First aid m	easures	
4.1. Description of first aid		
First-aid measures after inhalat		emove person to fresh air and keep comfortable for breathing.
First-aid measures after skin co	ontact : Wa	ash skin with plenty of water.
First-aid measures after eye co	ntact : Rin	nse eyes with water as a precaution.
First-aid measures after ingesti	on : Cal	all a poison center or a doctor if you feel unwell.
4.2. Most important sympt No additional information availa		acute and delayed
		n and special treatment needed
Treat symptomatically.		
SECTION 5: Firefighting	g measures	
5.1. Extinguishing media		
Suitable extinguishing media	: Wa	ater spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arisir		
Hazardous decomposition prod		ixic fumes may be released.
5.3. Advice for firefighters		
Protection during firefighting		o not attempt to take action without suitable protective equipment. Self-contained eathing apparatus. Complete protective clothing.
SECTION & Assidented		
SECTION 6: Accidental 6.1. Personal precautions		and emergency procedures
6.1.1. For non-emergency per		ntilete prillege erez
Emergency procedures	. vei	entilate spillage area.
6.1.2. For emergency respone		
Protective equipment		o not attempt to take action without suitable protective equipment. For further information fer to section 8: "Exposure controls/personal protection".
6.2. Environmental precau		
Avoid release to the environme		leave to a sure
6.3. Methods and material Methods for cleaning up		ike up liquid spill into absorbent material.
Other information		spose of materials or solid residues at an authorized site.
6.4. Reference to other se		
For further information refer to		
<b>SECTION 7: Handling a</b>		
7.1. Precautions for safe h		
Precautions for safe handling		sure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures		o not eat, drink or smoke when using this product. Always wash hands after handling the oduct.
7.2. Conditions for safe st		
Storage conditions	: Sto	ore in a well-ventilated place. Keep cool.
7.3. Specific end use(s) No additional information availa	able	
		staation
SECTION 8: Exposure of 8.1. Control parameters	controls/personal pro	
Distillates (petroleum), so		araffinic; Baseoil— unspecified; [A complex combination of
hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
EU	IOELV TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
		EN (English) 2/7



Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

Netherlands Grenswaarde TGG 8H (mg/m <sup>3</sup> )	5 mg/m³
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# 8.2. Exposure controls

# Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment	

#### Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical p	
9.1. Information on basic physical and cl Physical state	i Liquid
Colour	: Brown
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: -6 °C
Boiling point	: No data available
Flash point	: > 190 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 880 kg/m³ @15°C
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: 54 mm²/s @40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 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** 

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological inf	ormation	
11.1. Information on toxicologica	effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of		

hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

LD50 oral (rat)	5000 mg/kg
LD50 dermal (rat)	5000 mg/kg
LC50 inhalation (rat) (mg/l)	5,53 mg/l/4h

C14-16-18 Alkyl phenol (1190625-94-5)	
LD50 oral (rat)	> 2000 mg/kg bodyweight
LD50 dermal (rabbit)	> 2000 mg/kg bodyweight

Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts (68457-79-4)	
LD50 oral	> 3600 mg/kg OECD 401
LD50 dermal	> 20000 mg/kg OECD 402
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
ENGINE FLUSH	
Viscosity, kinematic	54 mm²/s @40°C

SECTION 12: Ecological infor 12.1. Toxicity	mation
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
hydrocarbons obtained by remov	ewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of val of normal paraffins from a petroleum fraction by solvent crystallization. It consists having carbon numbers predominantly in the range of C20 through C50 and produces a

finished oil with a viscosity not less than 100 SUS at 100 °F (19CSt at 40 °C).] (64742-65-0)	
LC50 fish 1	100 mg/l
EC50 Daphnia 1	10000 mg/l
EC50 72h algae (1)	3 mg/l



Phosphorodithioic acid, mixed O,O-bis (iso-E	Ru and pontvl) osters, zinc salts (68457-79-4)	
LC50 fish 1	4,5 mg/l 96Hrs (OECD 203)	
EC50 Daphnia 1	23 mg/l OECD 202	
EC50 72h algae (1)	21 mg/l 3 Days	
12.2. Persistence and degradability		
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
Persistence and degradability	Not biodegradable.	
Phosphorodithioic acid, mixed O,O-bis (iso-E	Bu and pentyl) esters, zinc salts (68457-79-4)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	1,5 % 28 DY, OECD TG 301B	
12.3. Bioaccumulative potential		
hydrocarbons obtained by removal of norma	vy paraffinic; Baseoil— unspecified; [A complex combination of I paraffins from a petroleum fraction by solvent crystallization. It consists on numbers predominantly in the range of C20 through C50 and produces a SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)	
Bioconcentration factor (BCF REACH)	260	
Log Pow	9,2	
Phosphorodithioic acid, mixed O,O-bis (iso-E	Bu and pentyl) esters, zinc salts (68457-79-4)	
Log Pow	0.69	
12.4. Mobility in soil	0,00	
Phosphorodithioic acid, mixed 0,0-bis (iso-E	Bu and pentyl) esters, zinc salts (68457-79-4)	
Ecology - soil	Adsorbs into the soil.	
12.5. Results of PBT and vPvB assessment		
Component		
Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts (68457-79-4)	vPvB: not relevant – no registration required	
12.6. Other adverse effects No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / ADN		
14.1. UN number UN-No. (ADR)	: Not applicable	
UN-No. (IMDG)	: Not applicable	
UN-No. (IATA)	: Not applicable	
UN-No. (ADN)	: Not applicable	
UN-No. (RID)	: Not applicable	
14.2. UN proper shipping name	· Nat annliaghta	
Proper Shipping Name (ADR)	: Not applicable	
Proper Shipping Name (IMDG)	: Not applicable	
Proper Shipping Name (IATA)	: Not applicable	
Proper Shipping Name (ADN) Proper Shipping Name (RID)	: Not applicable : Not applicable	
14.3. Transport hazard class(es)	. Not applicable	
ADR		

Transport hazard class(es) (ADR)

: Not applicable



IMDG		
Transport hazard class(es) (IMDG)	: Not applicable	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: Not applicable	
ADN		
Transport hazard class(es) (ADN)	: Not applicable	
RID		
Transport hazard class(es) (RID)	: Not applicable	
14.4. Packing group		
Packing group (ADR)	: Not applicable	
Packing group (IMDG)	: Not applicable	
Packing group (IATA)	: Not applicable	
Packing group (ADN)	: Not applicable	
Packing group (RID)	: Not applicable	
14.5. Environmental hazards		
Dangerous for the environment	: No	
Marine pollutant	: No	
Other information	: No supplementary information available	
14.6. Special precautions for user		
Overland transport		
Not applicable		
Transport by sea		
Not applicable		
Air transport		
Not applicable		
Inland waterway transport		
Not applicable		
Rail transport		
Not applicable		
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code		
Not applicable		

## SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

### 15.1.2. National regulations

#### Germany

Reference to AwSV	: Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
Ministry's list of carcinogens	: Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).],Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts are listed
Ministry's list of mutagens	: Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).],Phosphorodithioic acid, mixed O,O-bis (iso-Bu and pentyl) esters, zinc salts are listed
NON-exhaustive list of reproductive toxins - Breastfeeding	: None of the components are listed



NON-exhaustive list of reproductive toxins - Fertility	: None of the components are listed
NON-exhaustive list of reproductive toxins - Evolution	: None of the components are listed
Denmark	
Danish National Regulations	: Pregnant/breastfeeding women working with the product must not be in direct contact with the product
15.2 Chemical safety assessment	

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
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	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
EUH208	Contains C14-16-18 Alkyl phenol(1190625-94-5). May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

SDS EU (REACH Annex II)

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