



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

SDS # : 081805

HI-PERF 2T RACING

Date of the previous version: 2015-03-31

Revision Date: 2017-02-16

Version 4

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1. Product identifier

Product name	HI-PERF 2T RACING
Number	O2T
Substance/mixture	Mixture***

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

Identified uses	Engine oil, 2-stroke.***
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1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71***	Importer	Oil Intel Limited 56 Whakatu Road, Whakatu Hastings 4172 NEW ZEALAND Phone: +64 (06) 871 53 25 Fax: +64 (06) 870 48 90
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For further information, please contact:

Contact Point	HSE***
E-mail Address	rm.msds-lubs@total.com***

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670***
 France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59***
 In France - Poison centers:
 ANGERS : 02 41 48 21 21
 BORDEAUX : 05 56 96 40 80
 LILLE : 08 00 59 59 59
 LYON : 04 72 11 69 11
 MARSEILLE : 04 91 75 25 25
 NANCY : 03 83 22 50 50
 PARIS : 01 40 05 48 48
 STRASBOURG : 03 88 37 37 37
 TOULOUSE : 05 61 77 74 47***

Section 2: HAZARDS IDENTIFICATION
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2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008 ***

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For the full text of the H-Statements mentioned in this Section, see Section 2.2.***

Classification

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008***

2.2. Label elements

Labelled according to REGULATION (EC) No 1272/2008***

Signal Word

None***

Hazard Statements ***

None***

Precautionary Statements

None***

Supplemental Hazard Statements

EUH210 - Safety data sheet available on request***

EUH208 - Contains C14-16-18 Alkyl phenol. May produce an allergic reaction***

2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.***

Environmental properties Should not be released into the environment.***

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture***

Hazardous ingredients ***

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics***	934-954-2***	01-2119826592-36	^	20-<30	Asp. Tox. 1 (H304)
C14-16-18 Alkyl phenol***	931-468-2***	01-2119498288-19** *	^	0.25-<1	STOT RE 2 (H373) Skin Sens. 1 (H317) ***
Naphthalene***	202-049-5***	-	91-20-3	0.00025-<1	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Acute M factor = 1***

For the full text of the H-Statements mentioned in this Section, see Section 16.

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Section 4: FIRST AID MEASURES

4.1. Description of first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.***
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.***
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.***
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.***

4.2. Most important symptoms and effects, both acute and delayed

Eye contact	Not classified.***
Skin contact	Not classified. May cause an allergic skin reaction.***
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.***
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. ***

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically.
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Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	Foam. Carbon dioxide (CO ₂). ABC powder.***
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.***

5.2. Special hazards arising from the substance or mixture

Special Hazard	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.***
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5.3. Advice for fire-fighters

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Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.***

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery.***

6.2. Environmental precautions

General Information Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses.***

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Dam up. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).***

6.4. Reference to other sections

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.***

Prevention of fire and explosion Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.***

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.***

7.2. Conditions for safe storage, including any incompatibilities

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Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a banded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.***

Materials to Avoid

Strong oxidizing agents.***

7.3. Specific end uses

Specific use(s)

No information available.***

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

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)***

Chemical Name	European Union
Naphthalene*** 91-20-3	TWA 10 ppm TWA 50 mg/m ³ ***

Legend

See section 16

Derived No Effect Level (DNEL) ***

DNEL Worker (Industrial/Professional)***

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
C14-16-18 Alkyl phenol*** ^			1.17 mg/m ³ (inhalation) 0.30 mg/kg bw/day (dermal)***	
Naphthalene*** 91-20-3			25 mg/m ³ Inhalation 3.57 mg/kg Dermal	25 mg/m ³ Inhalation

Predicted No Effect Concentration (PNEC) ***

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
C14-16-18 Alkyl phenol*** ^	0.100 mg/l (fw) 0.010 mg/l (mw) 1 mg/ (or)***	4266.16 mg/kg sediment dw (fw) 426.62 mg/kg sediment dw (mw)***	852.58 mg/kg soil dw***		100 mg/l***	
Naphthalene*** 91-20-3	0.0024 mg/l fw 0.0024 mg/l mw 0.020 mg/l or	0.0672 mg/kg dw fw 0.0672 mg/kg dw mw	0.0533 mg/kg dw		2.9 mg/l	

8.2. Exposure controls

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Occupational Exposure Controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal Protective Equipment

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection

None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.***

Eye Protection

If splashes are likely to occur, wear: Safety glasses with side-shields.***

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Protective shoes or boots.***

Hand Protection

Hydrocarbon-proof gloves: Nitrile rubber, Fluorinated rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 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.***

Environmental exposure controls

General Information

Do not allow material to contaminate ground water system.***

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Color		blue***	
Physical State @20°C		liquid***	
Odor		Characteristic***	
Odor Threshold		No information available	
Property	Values	Remarks	Method
pH		Not applicable***	
Melting point/range		No information available	
Boiling point/boiling range		No information available***	
Flash point ***	108*** °C*** 226*** °F***		Cleveland Open Cup (COC)*** Cleveland Open Cup (COC)***
Evaporation rate		No information available***	

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Flammability Limits in Air	No information available		
Vapor Pressure	No information available***		
Vapor density	No information available***		
Relative density	No information available		
Density	866.0*** - *** 896.0*** kg/m ³ ***	@ 15 °C***	ISO 12185***
Water solubility	Insoluble***		
Solubility in other solvents	No information available***		
logPow	***		
Autoignition temperature	No information available***		
Decomposition temperature	No information available		
Viscosity, kinematic ***	*** 59.10*** -*** 72.90*** mm ² /s***	@ 40 °C ***	ASTM D 445 ***
***	*** 9.4*** -*** 11.9*** mm ² /s***	@ 100 °C ***	ASTM D 445 ***
Explosive properties	Not explosive***		
Oxidizing Properties	No information available***		
Possibility of hazardous reactions	No information available***		

9.2. Other information

Freezing Point	No information available
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Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

General Information	No information available.***
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10.2. Chemical stability

Stability	Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous Reactions	None under normal processing.
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10.4. Conditions to Avoid

Conditions to Avoid	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.***
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10.5. Incompatible materials

Materials to Avoid	Strong oxidizing agents.***
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10.6. Hazardous Decomposition Products

Hazardous Decomposition Products	None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes
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and soot.***

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity Local effects Product Information**

Skin contact	. Not classified. May cause an allergic skin reaction.***
Eye contact	. Not classified.***
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.***
Ingestion	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. ***
ATEmix (oral)	5,639.00*** mg/kg***
ATEmix (dermal)	5,639.00*** mg/kg***
ATEmix (inhalation-gas)	> 5,000.00***
ATEmix (inhalation-dust/mist)	> 5,000.00*** mg/l***
ATEmix (inhalation-vapor)	> 5,000.00*** mg/l***

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics***	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 3160mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5266 mg/m ³ (aerosol) (rat - OECD 403)
C14-16-18 Alkyl phenol***	LD50 2000 mg/kg bw (rat)***	LD50 2000 mg/kg bw (rat)***	
Naphthalene***	LD50 490 mg/kg (Rat)	LD50 2201 mg/kg (Rat)	LD50 (8h) > 500 mg/m ³ (Rat)

Sensitization

Sensitization Not classified as a sensitizer. May cause an allergic skin reaction.***

Specific effects**Carcinogenicity**

This product is not classified carcinogenic. During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.***

Chemical Name	European Union
Naphthalene*** 91-20-3	Carc. 2 (H351)***

Mutagenicity This product is not classified as mutagenic.***
Reproductive toxicity This product does not present any known or suspected reproductive hazards.***

Repeated Dose Toxicity

Subchronic toxicity No information available.***

Target Organ Effects (STOT)

Target Organ Effects (STOT) No information available.***

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Other information**Other adverse effects**

Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).***

Section 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Not classified.***

Acute aquatic toxicity - Product Information

No information available.***

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics*** ^	Erl50 (72h) > 10000 mg/l (Skeletonema costatum - ISO 10253)	LL50 (48h) > 3193 mg/l (Acartia tonsa - ISO 14669)	LL50 (96h) > 1028 mg/l (Scophthalmus maximus - OECD 203)	
C14-16-18 Alkyl phenol*** ^		EC50(48h) > 100 mg/l (Daphnia magna - static - OECD202)***		
Naphthalene*** 91-20-3		LC50 (48h) = 2.16 mg/L Daphnia magna EC50 (48h) = 1.96 mg/L Daphnia magna Flow through EC50 (48h) 1.09 - 3.4 mg/L Daphnia magna Static	LC50 (96h) = 1.6 mg/L Oncorhynchus mykiss (flow-through) LC50 (96h) 5.74-6.44 mg/L Pimephales promelas (flow-through) LC50 (96h) 0.91-2.82 mg/L Oncorhynchus mykiss (static) LC50 (96h) = 1.99 mg/L Pimephales promelas (static) LC50 (96h) = 31.0265 mg/L Lepomis macrochirus (static)	EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h

Chronic aquatic toxicity - Product Information

No information available.***

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics*** ^		NOELR (21d) > 1000 mg/l (Daphnia magna - QSAR Petrotox)	NOELR (28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

Effects on terrestrial organisms

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No information available.***

12.2. Persistence and degradability

General Information

No information available.

12.3. Bioaccumulative potential

Product Information

No information available.***

logPow

*** No information available***

Component Information

Chemical Name	log Pow
Naphthalene*** - 91-20-3	3.3

12.4. Mobility in soil

Soil

Given its physical and chemical characteristics, the product generally shows low soil mobility.***

Air

Loss by evaporation is limited.***

Water

Insoluble. The product spreads on the surface of the water.***

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available.***

12.6. Other adverse effects

General Information

No information available.***

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.***

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.***

EWC Waste Disposal No.

The following Waste Codes are only suggestions: 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste

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codes should be assigned by the user based on the application for which the product was used.***

Section 14: TRANSPORT INFORMATION

ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
ADN	Not regulated

Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Union **New Zealand Regulatory Information:**
HSNO Approval Number HSR002605

Further information **HSNO Group Standard Lubricants (Low Hazard) Group Standard2006**

No information available***

15.2. Chemical Safety Assessment

Chemical Safety Assessment **No information available*****

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system through prolonged or repeated exposure if swallowed

H317 - May cause an allergic skin reaction

H304 - May be fatal if swallowed and enters airways***

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

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LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water

mw = marine water

or = occasional release

Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

PEL: Permissible exposure limit

REL: Recommended exposure limit

TLV: Threshold Limit Values

+ Sensitizer

*

Skin designation

** Hazard Designation

C:

Carcinogen

M: Mutagen

R:

Toxic to reproduction

Revision Date: 2017-02-16

Revision Note *** Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet

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