

Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date: 11/10/2011

Supersedes: 30/11/2010

Version: 1.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil
Product code	: 625075316; 92-801881; 92-858025Q01; 92-858026Q01; 92-858027Q01; 92-858028Q01; 92-858029Q01
Synonyms	: Two cycle engine oil
Product group	: Trade product

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

1.2.1. Relevant identified uses

Use of the substance/preparation : Marine and Watercraft Applications

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Mercury Marine
41-71 Bessemer Drive Dandenong South Vic
Australia
3175
+61 3 9791 5822

1.4. Emergency telephone number

Emergency number : Chemtrec Australia (Sydney) +(61) 290372994 (24 hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

STOT SE 3 H336
Skin Irrit. 2 H315
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) :

P273 - Avoid release to the environment
P271 - Use only outdoors or in a well-ventilated area
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P362 - Take off contaminated clothing and wash before reuse
P501 - Dispose of contents/container to hazardous or special waste collection point.

Labelling according to Directive 67/548/EEC or 1999/45/EC

Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Hazard symbols



Hazardous ingredients

: Distillates (petroleum), hydrotreated light

R-phrases

: R38 - Irritating to skin.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

: S24 - Avoid contact with skin.
S35 - This material and its container must be disposed of in a safe way.
S37 - Wear suitable gloves.
S59 - Refer to manufacturer/supplier for information on recovery/recycling.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3. Other hazards

other hazards which do not result in classification

: Combustible liquid. Spills of this product present a serious slipping hazard.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Distillates (petroleum), hydrotreated light	(CAS No.) 64742-47-8 (EC no) 265-149-8 (EC index no) 649-422-00-2	<25	Xn; R65 R10 R51/53 Xi; R38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated light	(CAS No.) 64742-47-8 (EC no) 265-149-8 (EC index no) 649-422-00-2	<25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. In case of breathing difficulties administer oxygen. Immediately get medical attention. Put victim at rest, cover with a blanket and keep warm.

First-aid measures after skin contact

: Contact burns from hot or very cold materials should be flooded with cool low pressure water for 15 minutes. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Seek medical attention if ill effect or irritation develops. Discard contaminated leather articles. Wash contaminated clothing before reuse. If material is injected under the skin, seek medical attention immediately.

First-aid measures after eye contact

: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if ill effect or irritation develops.

First-aid measures after ingestion

: Do not induce vomiting unless directed to do so by medical personnel. Do not give an unconscious person anything to drink. Seek medical attention if ill effect or irritation develops.

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

Symptoms/injuries

: This material or its emissions may cause damage to kidney and liver and/or aggravate existing disorders.

Symptoms/injuries after inhalation

: Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation.

Symptoms/injuries after skin contact

: May cause slight temporary irritation. Effects of skin contact may include : redness. Effects of skin contact may include: irritation and burn feeling. Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage.

Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil

Safety Data Sheet

according to Regulation (EC) No. 453/2010

- Symptoms/injuries after eye contact : May cause slight temporary irritation. Symptoms can include redness, pain, and tearing.
- Symptoms/injuries after ingestion : On ingestion in large quantities : CNS depression. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.

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

Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media: : For small fire : carbon dioxide (CO₂), dry chemical powder, foam. Inert gas. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. For large fire : Foam. Water fog. Use water spray/fog for cooling.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : When heated above the flash point, releases vapours. Exposed to ignition source, vapours can burn in open / explode if confined. Mist or spray may burn at temperature below flash point.
- Explosion hazard : Exposed to ignition source, vapours can burn in open / explode if confined. Risk of explosion if heated in a confined system.
- Reactivity : Hazardous combustion products. Carbon dioxide. Carbon monoxide. hydrocarbons. Nitrogen oxides (NO_x). Sulfur oxides. May release harmful fumes.

5.3. Advice for firefighters

- Firefighting instructions : Risk of explosion if heated under confinement. At or above flash point, vapours present may burn in open or explode if confined when mixed with air and exposed to ignition source.
- Protective equipment for firefighters : In case of fire: Wear self-contained breathing apparatus. Wear proper protective equipment. Refer to section 8.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.
- Emergency procedures : Avoid all eye and skin contact and do not breathe vapour and mist. High slip hazard because of leaking or spilled product. Stop leak if safe to do so. Soak up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel). Large quantities: Contain large spillage with sand or earth.

6.1.2. For emergency responders

- Protective equipment : Refer to section 8.

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or the environment. Floats on water. Prevent entry to sewers and public waters. Relevant water authorities should be notified of any large spillage to water course or drain. Ensure all national/local regulations are observed.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Absorb remaining liquid with sand or inert absorbent and remove to safe place. Clean spills promptly. Consult the appropriate authorities about waste disposal. Wear proper protective equipment.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment. Avoid all eye and skin contact and do not breathe vapour and mist.

7.2. Conditions for safe storage, including any incompatibilities

- Storage condition(s) : Keep container tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Only use containers approved for especially this product. Protect from sunlight. Protect containers against damage. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources.

Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Incompatible products : Oxidizing agent.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil

Australia	TWA (mg/m ³)	5 mg/m ³ Oil Mist
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8.2. Exposure controls

Appropriate engineering controls : Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Gloves. Protective clothing. Protective goggles.



Hand protection : Avoid contact with skin. For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. DO NOT use gasoline, kerosene, solvents, or harsh abrasives as skin cleansers.

Eye protection : Chemical goggles or face shield with safety glasses. Use splash goggles when eye contact due to splashing is possible. Wear goggles and face shield when handling material at elevated temperatures.

Skin and body protection : Wear suitable protective clothing. Wear long sleeves. Wear heat resistant boots and protective clothing when handling material at elevated temperatures.

Respiratory protection : Work in well ventilated zones or use proper respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : green.
Odour : Light odour of petroleum.
Odour threshold : No data available
pH : not applicable
Melting point : No data available
Solidification point : No data available
Boiling point : No data available
Flash point : 62 °C (Closed cup)
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : No data available
Explosive limits : No data available
Vapour pressure : < 1 hPa @ 20°C
Relative vapour density at 20 °C : > 1 (air=1)
Relative density : 0.87 g/cm³
Density : 865.38 kg/m³
Solubility : Water: Negligible.
Log Pow : No data available
Log Kow : No data available
Self ignition temperature : No data available
Decomposition temperature : No data available

Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Viscosity, kinematic	: 31 cSt (at 20 °C)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

VOC content : 250 g/l Approximately.

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous combustion products. Carbon dioxide. Carbon monoxide. hydrocarbons. Nitrogen oxides (NOx). Sulfur oxides. May release harmful fumes.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide. carbon dioxide (CO2). hydrocarbons. Nitrogen oxides (NOx). Sulfur oxides. Toxic fumes may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

Skin corrosion/irritation	: Not classified pH: not applicable
Serious eye damage/irritation	: Not classified pH: not applicable
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.

Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (oral,rat,90 days)	750 mg/kg bodyweight/day
NOAEL (dermal,rat/rabbit,90 days)	> 400 mg/kg bodyweight/day
NOAEL (inhalation,rat,vapour,90 days)	> 1 mg/l/6h/day

Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: May produce skin irritation. Repeated exposure may cause skin dryness or cracking. Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation. Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels.

Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Distillates (petroleum), hydrotreated light (64742-47-8)

LC50 fishes 1	45 mg/l
LC50 other aquatic organisms 1	140 mg/l
LOEC (chronic)	1 mg/l
ErC50 (algae)	4.2 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Regional legislation (waste) : Consult the appropriate authorities about waste disposal. Dispose of this material and its container to hazardous or special waste collection point.
- Waste disposal recommendations : Do not pressurize, cut, weld, braze solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Do not re-use empty containers. Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

Not a dangerous good in sense of transport regulations.

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 candidate substance

VOC content : 250 g/l Approximately.

Other regulations, restrictions and prohibition regulations : Compliance with following regulations: Regulation (EC) 1907/2006 as amended. Regulation (EC) 1272/2008 as amended. Directive 67/548/EEC as amended. Directive 1999/45/EC as amended.

15.1.2. National regulations

Regional legislation : National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2011(2003)]. Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003 (1995)].

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Sources of Key data : MSDS.

Abbreviations and acronyms : ASTM - American Society for Testing and Materials . CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EC - European Community. EEC - European Economic Community. GHS - Globally Harmonised System. Overland transport (ADR). PVC (Polyvinyl chloride). REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. SDS - Safety Data Sheet.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 2	flammable liquids Category 2

Quicksilver Premium Plus TC-W3 Two Cycle Engine Oil

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Flam. Liq. 3	flammable liquids Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.