

ECHO Power Blend Two-Cycle Engine Oil

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: July 8, 2010

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Supersedes: October 18, 2010

Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Trade name : ECHO Power Blend Two-Cycle Engine Oil
Product code : 625478416

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Two-Cycle Engine Oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

John Papalexis Company
Thermopilon 59 St
Lamia 35100
Greece
T (+30) 22310 22614
F (+30) 22310 36125

1.4. Emergency telephone number

Emergency number : (+30) 22310 22614 (business hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation Category 2 H315
Sensitisation - Skin, Category 1 H317
Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. 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. Combustible liquid.

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
H317 - May cause an allergic skin reaction
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) :

P273 - Avoid release to the environment
P280 - Wear eye protection, face protection, protective clothing, protective gloves
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 Comply with applicable local, national and international regulation

2.3. Other hazards

Other hazards which do not result in classification

: Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Repeated exposure may cause skin dryness or cracking. May cause minor eye irritation. The hot liquid may cause severe skin burns. Material will burn but does not easily ignite. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), solvent-dewaxed heavy paraffinic (contains less than 3% DMSO extract)	Various	40 - 70	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light	(CAS No) 64742-47-8 (EC no) 265-149-8 (EC index no) 649-422-00-2	10 - 20	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
Calcium sulfonate	(CAS No) 61789-86-4 (EC no) 263-093-9	< 2	Skin Sens. 1, H317

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move to fresh air. If you feel unwell, seek medical attention.
First-aid measures after skin contact	: After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if ill effect or irritation develops. Contact burns from hot or very cold materials should be flooded with cool low pressure water for 15 minutes. Seek immediate medical advice.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Drink directly plenty of water or milk. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If victim is at risk of losing consciousness, position and transport on their side. Seek medical attention immediately.

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

Symptoms/injuries after inhalation	: Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
Symptoms/injuries after skin contact	: Repeated or prolonged skin contact may cause irritation. Repeated exposure may cause skin dryness or cracking. The hot liquid may cause severe skin burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: May cause slight irritation to eyes. Symptoms include : redness, itching, tears. The hot liquid may cause severe skin burns.
Symptoms/injuries after ingestion	: Can occur: Gastrointestinal disturbance.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: carbon dioxide (CO ₂), dry chemical powder, foam.
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

Fire hazard	: Material will burn but does not easily ignite. Combustible liquid. On combustion forms: Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO _x). Smoke. Organic compounds. Toxic and flammable vapours are released, which increase fire or explosion hazards. Will float and can be reignited on water surface.
Explosion hazard	: Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

5.3. Advice for firefighters

Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety.
Protective equipment for firefighters	: In case of fire: Wear self-contained breathing apparatus. Wear proper protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing, gloves and eye/face protection.
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Emergency procedures : Avoid all eye and skin contact and do not breathe vapour and mist. Special danger of slipping by leaking/spilling product. Eliminate ignition sources. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Large quantities: Contain large spillage with sand or earth. Clean contaminated area with oil-removing material.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Avoid all eye and skin contact and do not breathe vapour and mist. Special danger of slipping by leaking/spilling product. Eliminate ignition sources. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Large quantities: Contain large spillage with sand or earth. Clean contaminated area with oil-removing material.

6.2. Environmental precautions

Do not discharge into surface water. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Clean up any spills as soon as possible, using an absorbent material to collect it. Prevent spread over a wide area (e.g. by containment or oil barriers).

Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place. Do not allow to enter into surface water or drains. Minimize water use for cleaning. Clean contaminated area with oil-removing material.

Other information : Dispose of waste in accordance with local regulations.

6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Local ventilation at the workplace is recommended. Avoid all eye and skin contact and do not breathe vapour and mist. Use personal protective equipment as required. Combustible product. Explosive vapour/air mixtures may be formed. Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Handle in accordance with good industrial hygiene and safety procedures. Proper grounding procedures to avoid static electricity should be followed. Use only antistatically equipped (spark-free) tools.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide adequate ventilation.

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Keep container tightly closed and dry. Only use containers specifically approved for the substance/product. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. keep away from incompatible materials.

Incompatible materials : Strong oxidizing agents

7.3. Specific end use(s)

Refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Xylene (1330-20-7)		
Greece	OEL TWA (mg/m ³)	435 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m ³)	650 mg/m ³
Greece	OEL STEL (ppm)	150 ppm
Distillates (petroleum), solvent-dewaxed heavy paraffinic (contains less than 3% DMSO extract) (64742-65-0)		
Greece	OEL TWA (mg/m ³)	5 mg/m ³ (Paraffin oil mist)
Distillates (petroleum), solvent-refined heavy paraffinic (contains less than 3% DMSO extract) (64741-88-4)		
Greece	OEL TWA (mg/m ³)	5 mg/m ³ (Paraffin oil mist)

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize vapour concentrations.

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

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Hand protection	: Wear protective gloves. Nitrile-rubber protective gloves. Use heat-protective gloves when handling product at elevated temperatures. Be aware that the liquid may penetrate the gloves. Frequent change is advisable
Eye protection	: Chemical goggles
Skin and body protection	: Avoid repeated or prolonged skin contact. Wear suitable protective clothing. Wear heat protective boots and protective clothing when handling material at elevated temperatures
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Combined gas/dust mask with filter type A/P2.



Environmental exposure controls	: Avoid release to the environment. The final disposal of this material should be supervised by a specialist, following applicable environmental legislation.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Greenish blue.
Odour	: Petroleum-like odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 68 °C Closed cup (Pensky-Martens)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.1 kPa (at 20 °C)
Relative vapour density at 20 °C	: > 1 (Air = 1)
Relative density	: 0.87 g/cm ³ (water =1)
Solubility	: Water: Negligible.
Log Pow	: No data available
Viscosity, kinematic	: 77 cSt (at 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

None known under normal conditions of use.

10.2. Chemical stability

Stable at normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Avoid heat source.

10.5. Incompatible materials

Strong oxidizing agents

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10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, NOx. Organic compounds. Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Conclusive but not sufficient for classification)

Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 dermal rabbit	> 2000 mg/kg
Ethylbenzene (100-41-4)	
LC50 inhalation rat (ppm)	1432 ppm
Xylene (1330-20-7)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	1700 mg/kg
LC50 inhalation rat (ppm)	5000 ppm/4h
Distillates (petroleum), hydrotreated heavy paraffinic (contains less than 3% DMSO extract) (64742-54-7)	
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified (No classification for eye irritation as none of the components are classified for eye irritation)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No classification for mutagenicity as none of the components are classified for mutagenicity)
Carcinogenicity	: Not classified (No classification for carcinogenicity as none of the components are classified for carcinogenicity)
Reproductive toxicity	: Not classified (No classification for reproduction as none of the components are toxic for reproduction)
Specific target organ toxicity (single exposure)	: Not classified (Conclusive but not sufficient for classification)
Specific target organ toxicity (repeated exposure)	: Not classified (None of the components shows specific effects in acute toxicity studies requiring classification for Specific Target Organ Systemic Toxicity 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	: Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	77 mm ² /s (at 40 °C)

Potential Adverse human health effects and symptoms	: Repeated exposure may cause skin dryness or cracking. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. May cause minor eye irritation. Symptoms can include redness, pain, and tearing. The hot liquid may cause severe skin burns.
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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.

Distillates (petroleum), hydrotreated light (64742-47-8)	
ErC50 (algae)	> 1 mg/l 72 hours
ErC50 (other aquatic plants)	> 5 mg/l 96 hours
NOEC (acute)	> 0.3 mg/l 48 hours- daphnia
NOEC (chronic)	> 0.48 mg/l 21 days- daphnia

Ethylbenzene (100-41-4)	
LC50 fish 1	11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
LC50 fish 2	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 Daphnia 1	1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Xylene (1330-20-7)	
LC50 fish 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	2.661 - 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)

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Ethylbenzene (100-41-4)	
EC50 Daphnia 2	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
NOEC (acute)	0.44 mg/l 72 hours
NOEC (chronic)	> 0.96 mg/l 7 days- daphnia
Distillates (petroleum), hydrotreated heavy paraffinic (contains less than 3% DMSO extract) (64742-54-7)	
NOEC (acute)	> 100 mg/l 96 hours- fish
NOEC chronic algae	> 100 mg/l 72 hours

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Ethylbenzene (100-41-4)	
BCF fish 1	15
Log Pow	3.2
Xylene (1330-20-7)	
BCF fish 1	0.6 - 15
Log Pow	2.77 - 3.15

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 : Dispose in a safe manner in accordance with local/national regulations. European waste codes: Unused product: 13 02 05*.

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

- Proper Shipping Name (ADR) : Not regulated
- Proper Shipping Name (IMDG) : Not regulated
- Proper Shipping Name (IATA) : Not regulated
- Proper Shipping Name (ADN) : Not regulated
- Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR

- Transport hazard class(es) (ADR) : Not applicable

IMDG

- Transport hazard class(es) (IMDG) : Not applicable

IATA

- Transport hazard class(es) (IATA) : Not applicable

ADN

- Transport hazard class(es) (ADN) : Not applicable

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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

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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

Other information, restriction 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

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Distillates (petroleum), hydrotreated light paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), solvent-dewaxed heavy paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), solvent-refined heavy paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), solvent-refined light paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), hydrotreated heavy paraffinic (contains less than 3% DMSO extract),calcium sulfonate,Distillates (petroleum), hydrotreated light are listed

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SZW-lijst van mutagene stoffen	: Distillates (petroleum), hydrotreated light paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), solvent-dewaxed heavy paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), solvent-refined heavy paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), solvent-refined light paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), hydrotreated heavy paraffinic (contains less than 3% DMSO extract),Distillates (petroleum), hydrotreated light are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: Xylene is listed
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

CLP - Classification, Labelling and Packaging
EC - European Community
EEC - European Economic Community
Nitrogen oxides (NOx)
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS - Safety Data Sheet
CAS - Chemical Abstracts Service
CSR - Chemical Safety Report
GHS - Globally Harmonised System
MSDS - Material Safety Data Sheet
PEL- Permissible Exposure Level
STEL- Short-Term Exposure Limit
TLV- Threshold Limit Value
TWA- Time Weighted Average

Indication of changes : According to Regulation (EU) 2015/830 (REACH Annex II)

Date of Revision : April 27, 2016

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
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
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
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
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness

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H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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