



SAFETY DATA SHEET

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Revision nr : 1.0

Issue date : 01/03/2018

BRP Rotax Synthetic 2T Kart Tec

Supersedes :

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

1.1. Product identifier

Product form : Mixture
Trade name/designation : BRP Rotax Synthetic 2T Kart Tec
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/mixture : Engine oil

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

BRP Finland Oy
Isoaavantie 7
P.O. Box PL 8040
96100 ROVANIEMI - FINLAND
T +358-16-3208 111 - F +358-16-3208 240
msds.finland@brp.com - www.brp.com

1.4. Emergency telephone number

Emergency number : +358-16-3208 111 (BRP Finland Oy)
Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Sens. 1 H317

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word : Warning



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Hazardous ingredients : Calcium long chain alkaryl sulphonate
Hazard statements (CLP) : H317 - May cause an allergic skin reaction.
Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Other hazards : PBT/vPvB data : No data available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Base oil, DMSO < 3%

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index) 649-467-00-8	20 - 30	Asp. Tox. 1, H304
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivatives	(CAS-No.) 84605-20-9 (EC-No.) 617-593-2	< 5	Aquatic Chronic 4, H413
Calcium long chain alkaryl sulphonate	(CAS-No.) 722503-68-6 (EC-No.) - (EC Index) -	< 1,5	Skin Sens. 1, H317 Aquatic Chronic 4, H413

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation : Remove person to fresh air and keep comfortable for breathing. Keep at rest. Get medical advice/attention if you feel unwell.

Skin contact : After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing. If irritation develops, get medical attention. Wash contaminated clothing before reuse.

Eyes contact : Flush with lukewarm water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation develops or persists.

Ingestion : Rinse mouth thoroughly with water. Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Get medical advice/attention if you feel unwell.

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

Inhalation : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Aerosol or mist formation.



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- Skin contact : May cause sensitisation of susceptible persons by skin contact. irritation (itching, redness, blistering).
- Eyes contact : Not irritating to eyes.
- Ingestion : No adverse effects are expected.
- Chronic symptoms : No adverse effects are expected.

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

In case of doubt or persistent symptoms, consult always a physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing 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

Specific hazards : On exposure to high temperature, may decompose, releasing toxic/flammable vapours : Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Vapours may form explosive mixture with air. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Phosphorus oxides. Nitrogen oxides. Sulphur oxides. Hydrocarbons. irritating fumes.

5.3. Advice for firefighters

Firefighting instructions : Evacuate personnel to a safe area. Special protective equipment for firefighters. Cool containers / tanks with water spray. Hose down gases, fumes and/or dust with water.

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Exclude sources of ignition and ventilate the area. Evacuate personnel to a safe area. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours are heavier than air and may spread along floors. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8 .

6.2. Environmental precautions

Do not allow to enter into surface water or drains.



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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Provide adequate ventilation. Stop leak if safe to do so. Clean-up methods - small spillage: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Clean-up methods - large spillage: Take up mechanically. Keep in suitable, closed containers for disposal. Delivery to an approved waste disposal company. Material can create slippery conditions. Evaluation of water contamination : Recover by skimming or pumping using explosion-proof equipment. Recover large spills by pumping (use an explosion proof or hand pump).

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only in well ventilated areas. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Maximum handling temperature 60°C. Take precautionary measures against static discharge. After use replace the closing cap immediately. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains. Take any precaution to avoid mixing with Incompatible materials.

Hygiene measures : When using do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling of the product. Take off contaminated clothing. Separate working clothes from town clothes. Keep away from food, drink and animal feedingstuffs. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Remove all sources of ignition. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BRP Rotax Synthetic 2T Kart Tec	
EU	Mineral oil OEL's: oil (mist) TLV-TWA (mg/m ³) : 1 (se, no); 5 (be, nl, gb, fr, de, fi, dk) oil (mist) TLV-STEL (mg/m ³) : 3 (se); 10 (be, gb):

Additional information : Personal air monitoring :. Room air monitoring. Recommended monitoring procedures

8.2. Exposure controls

Engineering measure(s) : Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharge. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Organisational measures to prevent /limit releases, dispersion and exposure : See also section 7 .



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Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Recommended material: Neoprene, NBR (Nitrile rubber) . The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: Wear eye protection : tightly fitting safety goggles (EN166)
Body protection	: Wear suitable protective clothing. Wear chemical resistant apron. Boots . Recommended material: Neoprene. NBR (Nitrile rubber) .
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). Full face mask (EN 136). Filter type: AP (EN141). Use self-contained respiratory apparatus for rescue and maintenance work in storage vessels. (EN 137)
Thermal hazard protection	: Not required for normal conditions of use. Heat-resistant. Insulated gloves.
Environmental exposure controls	: Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid.
Colour	: amber. brown.
Odour	: petroleum-like odour. (mild).
Odour threshold	: Not determined
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not determined
Melting / freezing point	: Not determined
Freezing point	: Not determined
Initial boiling point and boiling range	: Not determined
Flash point	: 71 °C (COC)
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not determined
Vapour density	: Not determined
Relative density	: 0,856 g/cm ³ (15.6°C)
Solubility	: miscible with most organic solvents. Water: Negligible
Partition coefficient n-octanol/water	: Not determined
Kinematic viscosity	: 34 cSt (@ 40°C)
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.



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Oxidising properties : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

Explosive limits : Not determined

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions . Reference to other sections: 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Does not decompose when used for intended uses. Hazardous polymerisation does not occur. Reference to other sections 10.5.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Contamination . See also section 7 : Handling and storage .

10.5. Incompatible materials

Acids. Strong oxidizing agents. (Oxygen. Chlorine (Cl₂)). See also section 7 .

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. Reference to other sections: 5.2 .

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

BRP Rotax Synthetic 2T Kart Tec	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rat	> 5000 mg/kg
LC50/inhalation/4h/rat	> 20 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50/oral/rat	> 15 g/kg
LD50/dermal/rabbit	> 5000 mg/kg
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivatives (84605-20-9)	
LD50/oral/rat	> 5000 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: Not applicable

Respiratory or skin sensitisation : May cause an allergic skin reaction. (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)



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Aspiration hazard : Not classified

BRP Rotax Synthetic 2T Kart TecKinematic viscosity : 34 mm²/s (@ 40°C)Other information : Symptoms related to the physical, chemical and toxicological characteristics.
Reference to other sections: 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Ecological problems are not known or expected under normal use.

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LC50 fish 1 : > 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

EC50 Daphnia 1 : > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability**BRP Rotax Synthetic 2T Kart Tec**

Persistence and degradability : Not readily biodegradable.

12.3. Bioaccumulative potential**BRP Rotax Synthetic 2T Kart Tec**

Partition coefficient n-octanol/water : Not determined

Bioaccumulative potential : Not determined.

12.4. Mobility in soil**BRP Rotax Synthetic 2T Kart Tec**

Mobility in soil : This information is not available.

Ecology - soil : This information is not available.

12.5. Results of PBT and vPvB assessment**BRP Rotax Synthetic 2T Kart Tec**

Results of PBT assessment : This information is not available.

12.6. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. Safe handling: see section 7 : Handling and storage . Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility. Dispose of contaminated materials in accordance with current regulations.

Additional information : Never use pressure to empty container. Delivery to an approved waste disposal company. Dispose of contaminated materials in accordance with current regulations.

Further ecological information : Do not allow to enter into surface water or drains.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user based on the application for which the product was used.



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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable				

14.6. Special precautions for user

Special precautions for user : Not applicable

- 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 73/78 and the IBC Code

Code: IBC : 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	BRP Rotax Synthetic 2T Kart Tec
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	BRP Rotax Synthetic 2T Kart Tec



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3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivatives

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) 1, low hazard to waters (Classification according to AwSV, Annex 1)

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

Netherlands

Waterbezwaarlijkheid : 4 - Weinig schadelijk voor in het water levende organismen : B(4)

Saneringsinspanningen : B - Lozing minimaliseren; toepassen van best uitvoerbare technieken

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components 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 : None of the components are 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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
EC50 = Median Effective Concentration



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	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	NA = Not applicable
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : Name (SDS) : BRP Rotax Synthetic 2T Kart Tec. Product code : 10393.
Manufacturer/Supplier : BRP US Inc. Revision date : 12/27/17. ECHA (European Chemicals Agency).

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Assessment/classification CLP : Article No.: 9. (Calculation method).

Full text of H- and EUH-statements:

Aquatic Chronic 4	Hazardous to the aquatic environment - chronic hazard category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Skin Sens. 1	Skin sensitisation, hazard category 1
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H413	May cause long lasting harmful effects to aquatic life.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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