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

1.1. Product identifier

Trade name/designation : Multi-Purpose Synthetic Grease
Product code : 619590193
Synonyms : LUBRIPLATE Syn 1601

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

Specific use(s) : Synthetic Lubricating Grease

1.3. Details of the supplier of the safety data sheet

Company : BRP Europe NV
Skaldenstraat 125
9042 Gent , BELGIUM
Tel. 09/218 26 54
Fax: 09/218 26 69
E-mail: freya.deroek@brp.com

Company : BRP Finland Oy
Isoaavantie 7
96100 ROVANIEMI , FINLAND
Tel. +358-16-3208 111
Fax: +358-16-3208 240
E-mail: msds.finland@brp.com

1.4. Emergency telephone number

Emergency telephone : 0032 92 18 26 54 (BRP Europe NV) (This telephone number is available during office hours only.)
Emergency telephone : +358-16-3208 111 (BRP Finland Oy) (This telephone number is available during office hours only.)

IRELAND (REPUBLIC OF)
National Poisons Information Centre
Beaumont Hospital : +35 318 37 99 64
UNITED KINGDOM
National Poisons Information Service
(Birmingham Centre) : +44 870 60 062 66 (UK only)
City Hospital

SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

Mixture: CLP classification not requested

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : The mixture is classified as dangerous in accordance with Directive 1999/45/EC.

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Xi; R36/38
N; R51/53

Full text of R-phrases: see section 16

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

Mixture: CLP classification not requested

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Symbol(s) :



Xi - Irritating

N - Dangerous for the environment

R-phrase(s) :

R36/38 - Irritating to eyes and skin.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases :

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Extra phrases :

Contains Zinc bis(dibutyldithiocarbamate). May produce an allergic reaction.

2.3. Other hazards

Other hazards which do not result in classification :

Results of PBT and vPvB assessment
This information is not available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Zinc oxide	(CAS No.) 1314-13-2 (EC No) 215-222-5 (EC Index) 030-013-00-7	5 - 10	N; R50/53
Antimony tris[O,O-dipropyl] tris(dithiophosphate)	(CAS No.) 15874-48-3 (EC No) 240-001-5 (EC Index) -	2 - 5	Xn; R20/22 N; R51/53
Lithium hydroxide monohydrate	(CAS No.) 1310-66-3 (EC No) - (EC Index) -	2 - 5	Xn; R22 C; R35
Zinc bis(dibutyldithiocarbamate)	(CAS No.) 136-23-2 (EC No) 205-232-8 (EC Index) 006-081-00-9	0 - 1	Xi; R36/37/38 Xi; R43 N; R50/53
Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc oxide	(CAS No.) 1314-13-2 (EC No) 215-222-5 (EC Index) 030-013-00-7	5 - 10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Antimony tris[O,O-dipropyl] tris(dithiophosphate)	(CAS No.) 15874-48-3 (EC No) 240-001-5 (EC Index) -	2 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 2, H411



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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lithium hydroxide monohydrate	(CAS No.) 1310-66-3 (EC No) - (EC Index) -	2 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Zinc bis(dibutylthiocarbamate)	(CAS No.) 136-23-2 (EC No) 205-232-8 (EC Index) 006-081-00-9	0 - 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	: Move to fresh air. Keep at rest. Consult a physician.
Skin contact	: Remove contaminated clothing and shoes. Wash off with warm water and soap. If skin irritation persists, call a physician. In the event of a high pressure injection injury, worker should obtain immediate medical assistance.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.
Ingestion	: Do not induce vomiting. Rinse mouth with water. Drink 1 or 2 glasses of water. Call a physician immediately.
Additional advice	: First aider needs to protect himself. See also section 8 . Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

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

Inhalation	: May cause irritation of respiratory tract. Prolonged exposure : May cause respiratory impairment and lung damage.
Skin contact	: Irritating to skin. Prolonged exposure : Skin irritation, Skin disorders .
Eye contact	: Irritating to eyes. Prolonged exposure : No information available.
Ingestion	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Difficulty in breathing . Prolonged exposure : No information available.

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

When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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Extinguishing media which shall not be used : High volume water jet .
for safety reasons

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible material .
Specific hazards : Evacuate personnel to safe areas.
Possible decomposition products are: CO_x, SO_x.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Advice for firefighters : Special protective equipment for firefighters .
In the event of fire, wear self-contained breathing apparatus.
In the event of fire, cool tanks with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel : Ensure adequate ventilation.
Wear personal protective equipment.
See also section 8.
Avoid contact with skin, eyes and clothing.
Keep away from open flames, hot surfaces and sources of ignition.
Advice for emergency responders : Only qualified personnel equipped with suitable protective equipment may intervene.
See also section 8 .

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Prevent further leakage or spillage if safe to do so.
Scrape up.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations.
Clean contaminated surface thoroughly.

6.4. Reference to other sections

See also section 8 .
See also section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling : Ensure adequate ventilation.
Wear personal protective equipment.
See also section 8 .
Avoid contact with skin, eyes and clothing.
Keep away from open flames, hot surfaces and sources of ignition.
Always replace cap after use.
Take care to avoid waste and spillage when weighing, loading and mixing the product.



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- Hygiene measures
- Do not let product enter drains.
 - Take any precaution to avoid mixing with incompatible materials.
 - Container hazardous when empty.
 - Do not burn, or use a cutting torch on, the empty drum.
 - Use only in area provided with appropriate exhaust ventilation.
 - Handle in accordance with good industrial hygiene and safety practice.
 - Wash hands before breaks and immediately after handling the product.
 - When using, do not eat, drink or smoke.
 - Wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

- Storage
- Keep tightly closed in a dry, cool and well-ventilated place.
 - Keep away from open flames, hot surfaces and sources of ignition.
 - Do not store near or with any of the incompatible materials listed in section 10.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- Exposure limit(s)
- oil (mist) TLV-TWA (mg/m³) : 5 (BE, GB, FR, DE, NL, ES, FI, DK, NO), 1 (SE)
 - oil (mist) TLV-STEL (mg/m³) : 10 (BE, GB, ES), 3 (SE)
- Recommended monitoring procedures
- Concentration measurement in air
 - Personal monitoring

8.2. Exposure controls

- 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.
- Respiratory protection
- In case of insufficient ventilation, wear suitable respiratory equipment.
 - Respirator with a full face mask (EN136).
 - Respirator with a half face mask (EN140).
 - Recommended Filter type: A (EN141).
- Hand protection
- Wear chemically resistant gloves (tested to EN374) . 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
- If splashes are likely to occur, wear: Safety glasses (EN166)
- Skin and body protection
- Wear suitable protective clothing.
 - e.g. Chemical resistant apron .
- Thermal hazard protection
- Not required under normal use.
 - Use dedicated equipment.
- Engineering control measures
- Ensure adequate ventilation, especially in confined areas.
 - Ensure that eyewash stations and safety showers are close to the workstation location.
 - Organisational measures to prevent /limit releases, dispersion and exposure :
 - See also section 7 .



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Environmental exposure controls : Do not flush into surface water or sanitary sewer system.
Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : paste,(semi-solid)
Colour : off-white
Odour : Mineral oil
Odour Threshold : no data available
pH : no data available
Melting point/range : no data available
Freezing point : no data available
Boiling point/boiling range : > 288 °C
Flash point : 260 °C (COC)
Evaporation rate : < 0,01 Relative evaporation rate (butylacetate=1)
Explosion limits : LFL 0,9 vol % - UFL 7,0 vol % Upper/lower flammability or explosive limits
Vapour pressure : < 0,01
Vapour density : > 5 (air=1)
Relative density : 0,96
Water solubility : Negligible
Partition coefficient: n-octanol/water : no data available
Autoignition temperature : no data available
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.
Oxidizing 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.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : See also section 10.5

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : None under normal processing.



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10.4. Conditions to avoid

Conditions to avoid : Keep away from open flames, hot surfaces and sources of ignition.
See also section 7 .

10.5. Incompatible materials

Incompatible materials : Oxidizing agents . Chlorine. See also section 7 .

10.6. Hazardous decomposition products

Hazardous decomposition products : Thermal decomposition generates : Carbon oxides, Sulphur oxides .

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Zinc oxide (1314-13-2)

LD50/oral/rat > 5000 mg/kg

LC50/inhalation/4h/rat > 5700 mg/l/4h

Antimony tris[O,O-dipropyl] tris(dithiophosphate) (15874-48-3)

ATE (oral) 500,00000 mg/kg

ATE (dust,mist) 1,50000 mg/l/4h

Lithium hydroxide monohydrate (1310-66-3)

ATE (oral) 500,00000 mg/kg

Irritation : Irritating to eyes and skin.
pH: no data available

Corrosivity : Not classified (Based on available data, the classification criteria are not met.)
pH: no data available

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

Repeated dose toxicity : 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.)

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

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

Further information

Symptoms related to the physical, chemical and toxicological characteristics, See section 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity effects : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Zinc oxide (1314-13-2)

LC50/96h/fish 1,793 mg/l Danio rerio (zebra fish)



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Zinc oxide (1314-13-2)

EC50/48h/daphnia	2,6 mg/l (Daphnia Magna)
NOEC (additional information)	NOEC, Fish 101ug/L (M.bahia)

12.2. Persistence and degradability

Persistence and degradability : no data available

12.3. Bioaccumulative potential

Bioaccumulation : no data available

Partition coefficient: n-octanol/water : no data available

12.4. Mobility in soil

Mobility : This information is not available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB : This information is not available.

12.6. Other adverse effects

Further information : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste from residues / unused products : Handle with care.
See also section 7:
Handling and storage .
Do not flush into surface water or sanitary sewer system.
Dispose of in accordance with local regulations.
Collect and dispose of waste product at an authorised disposal facility.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Container hazardous when empty.
- List of suggested waste codes/waste designations in accordance with the EWC: : Classified as hazardous waste according to European Union regulations.
The following Waste Codes are only suggestions:
120112 - spent waxes and fats /
150110 - packaging containing residues of or contaminated by dangerous substances .
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.


SECTION 14: Transport information

14.1. UN number

UN-No. : 3082

14.2. UN proper shipping name

- Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS Zinc oxide ())
- Proper shipping name IATA/IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS Zinc oxide ())

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14.3. Transport hazard class(es)

14.3.1. Overland transport

Class : 9 - Miscellaneous dangerous substances and articles
Hazard identification number (Kemler No.) : 90
Classification code : M6
ADR/RID-Labels : 9 - Miscellaneous dangerous substances and articles



14.3.2. Inland waterway transport (ADN)

Class (UN) : 9

14.3.3. Transport by sea

Class : 9 - Miscellaneous dangerous substances and articles

14.3.4. Air transport

Class : 9 - Miscellaneous dangerous substances and articles

14.4. Packing group

Packing group : III

14.5. Environmental hazards

Environmental hazards : P



Other information : No supplementary information available.

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Restrictions on use :
3. Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC. Multi-Purpose Synthetic Grease - Antimony tris[O,O-dipropyl] tris(dithiophosphate)



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This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

: none

Authorisations

: not applicable

15.1.2. National regulations

DE : WGK

: 2

DE : Technische Regeln für Gefahrstoffe (TRGS)

: applicable

NL : ABM

: 6 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (A)

NL : NeR (Nederlandse emissie Richtlijn)

: Organic Substances

15.2. Chemical safety assessment

Chemical Safety Assessment

: no data available

SECTION 16: Other information

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

Acute Tox. 4 (Inhalation:dust,mist)

: Acute toxicity Category 4

Acute Tox. 4 (Oral)

: Acute toxicity Category 4

Aquatic Acute 1

: Hazardous to the aquatic environment - Aquatic Acute 1

Aquatic Chronic 1

: Hazardous to the aquatic environment - chronic hazard category 1

Aquatic Chronic 2

: Hazardous to the aquatic environment - chronic hazard category 2

Eye Irrit. 2

: Serious eye damage/eye irritation Category 2

Skin Corr. 1A

: skin corrosion/irritation Category 1A

Skin Irrit. 2

: skin corrosion/irritation Category 2

Skin Sens. 1

: Skin sensitisation, hazard category 1

STOT SE 3

: Specific target organ toxicity (single exposure) Category 3

H302

: Harmful if swallowed.

H314

: Causes severe skin burns and eye damage.

H315

: Causes skin irritation.

H317

: May cause an allergic skin reaction.

H319

: Causes serious eye irritation.

H332

: Harmful if inhaled.

H335

: May cause respiratory irritation.

H400

: Very toxic to aquatic life.

H410

: Very toxic to aquatic life with long lasting effects.

H411

: Toxic to aquatic life with long lasting effects.

R20/22

: Harmful by inhalation and if swallowed.

R22

: Harmful if swallowed.

R35

: Causes severe burns.

R36/37/38

: Irritating to eyes, respiratory system and skin.

R36/38

: Irritating to eyes and skin.

R43

: May cause sensitisation by skin contact.

R50/53

: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53

: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

C

: Corrosive

N


: Dangerous for the environment

Xi

: Irritating

Xn

: Harmful

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Sources of key data used to compile the Safety Data Sheet : European Chemicals Bureau (<http://esis.jrc.ec.europa.eu>)
SDS from supplier 'LUBRIPLATE Syn 1601', revision date 03/02/2009

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
LC50 = Median lethal concentration
LD50 = Median lethal dose
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)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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