

according to 29 CFR 1910.1200(g)

Beck/Arnley Premium Fully Synthetic Hydraulic Fluid - FS11 (252-0028)

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1. Identification

Product identifier

Beck/Arnley Premium Fully Synthetic Hydraulic Fluid - FS11(252-0028)

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Central hydraulic motor

Details of the supplier of the safety data sheet

Company name: Beck/Arnley
Street: 2375 Midway Lane
Place: Smyrna, TN 37167
Telephone: 615-220-3200

e-mail: beckcustomerservice@DRiV.com

Internet: www.beckarnley.com

Emergency phone number: INFOTRAC 1-800-535-5053

2. Hazard(s) identification

Label elements

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
68649-11-6	1-decene, dimer, hydrated	59.6 %
64742-54-7	Distillates (petroleum), heavy paraffinic, hydrotreated	24 %
72623-86-0	Baseoil - unspecified, Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	5.395 %
94270-86-7	1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl	0.1287 %
268567-32-4	Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-(9Cl)	0.1287 %

4. First-aid measures

Description of first aid measures

General information

Self-protection of the first aider

Change contaminated clothing.

Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. In case of inhalation of aerosols/spray mist/splash spots: Consult physician.

Avoid breathing dust/fume/gas/mist/vapors/spray. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated



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clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Caution if victim vomits: Risk of aspiration! Aspiration hazard: Call a physician immediately.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Carbon dioxide (CO2). Dry extinguishing powder. Foam.

Unsuitable extinguishing media

High power water jet.

Specific hazards arising from the chemical

Non-flammable. Special exposure hazards arising from the substance itself, combustion products, resulting gases:

Carbon dioxide (CO2). Carbon monoxide Sulphur oxides. Phosphorus oxides. Hydrogen sulphide (H2S).

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus. carbon black

In case of fire and/or explosion do not breathe fumes.

In case of fire: Wear self-contained breathing apparatus.

Additional information

Supress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

Use water spray/stream to protect personnel and to cool endangered containers.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes.

Use personal protection equipment. Special danger of slipping by leaking/spilling product.

Wear suitable protective clothing.

Wear respiratory protection when in the presence of vapor, dust, and aerosols.

Environmental precautions

Do not allow to enter into surface water or drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections

Safe handling: see section 7



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Personal protection equipment (PPE): see section 8

Disposal: see section 13

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapour/spray. Protect skin by using skin protective cream. Wash hands before breaks and after work.

Conditions to avoid: aerosol or mist generation.

Advice on protection against fire and explosion

No special measures are necessary.

When using do not smoke.

Fire class: B (DIN-/EN-Norms: EN2)

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Keep away from heat. Keep/Store only in original container.

Hints on joint storage

Do not store together with: Food and fodder, Oxidizing agents.

Further information on storage conditions

If product enters soil, it will be mobile and may contaminate groundwater. Keep away from heat.

8. Exposure controls/personal protection

Control parameters

Exposure controls





Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. When using do not eat, drink or smoke.

Protect skin by using skin protective cream.

Keep away from food, drink and animal feedingstuffs.

Do not breathe vapor.

Eye/face protection

Suitable eye protection: goggles. In fine dispersion/spraying/misting: Wear protective gloves/protective clothing.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.



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Skin protection

Use of protective clothing. In fine dispersion/spraying/misting: Wear protective gloves/protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Wear respiratory protection when in the presence of vapor, dust, and aerosols.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid
Color: green
Odor: characteristic

Test method

Print date: 16.04.2021

pH-Value: not applicable DIN 51369

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

boiling range:

Pour point: ~ -51 °C

DIN ISO 3016

Flash point: >100 °C ISO 2592

Flammability

Solid: not applicable
Gas: not applicable

Explosive properties

The product is not: Explosive.

Lower explosion limits:

Upper explosion limits:

not determined

not determined

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapor pressure: <0,1 hPa calculated.

(at 20 °C)

Density (at 15 $^{\circ}$ C): \sim 0,83 g/cm³ DIN 51757

Water solubility: practically insoluble

(at 20 °C)

Solubility in other solvents

Soluble in hydrocarbons (mineral oil.)

Partition coefficient n-octanol/water: not determined

Viscosity / kinematic: ~ 20,6 mm²/s DIN 51562

(at 40 °C)

Relative vapour density: not determined Evaporation rate: not determined



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Solvent separation test:

No data available

Solvent content:

none/none Solvents

Other information

Solid content: 0

none/none

10. Stability and reactivity

Reactivity

No data available

Chemical stability

Stability: Stable

No thermal decomposition if properly stored / handled /transported.

Onset of decomposition at elevated temperatures (>300°C)

Possibility of hazardous reactions

Hazardous reactions: Will not occur

possible with strong oxidizing agents.

This product is stable under normal conditions. Hazardous reactions are unlikely.

Conditions to avoid

No data available

Incompatible materials

Oxidizing agents, strong.

Hazardous decomposition products

none/none

Further information

No thermal decomposition if properly stored / handled /transported.

11. Toxicological information

Information on toxicological effects

Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

No data available.

Irritant effect on the respiratory tract: Do not breathe gas/vapor.



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CAS No	Components							
	Exposure route	Dose		Species	Source	Method		
68649-11-6	1-decene, dimer, hydrated							
	oral	LD50 mg/kg	>5000	Rat				
	dermal	LD50 mg/kg	>3000	Rabbit				
	inhalation vapour	ATE	11 mg/l					
	inhalation (4 h) aerosol	LC50	5 mg/l	Rat				
64742-54-7	Distillates (petroleum), heavy paraffinic, hydrotreated							
	oral	LD50 mg/kg	>2000	Rat	OECD 401			
	dermal	LD50 mg/kg	>2000	Rabbit	OECD 402			
	inhalation (4 h) vapour	LC50 mg/l	>5000	Rat	OECD 403			
94270-86-7								
	oral	LD50 mg/kg	>2000	Rat				
268567-32-4	Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-(9CI)							
	oral	LD50 mg/kg	>2000	Rat				
	dermal	LD50 mg/kg	>2000	Rat				

Irritation and corrosivity

Irritant effect on the skin: none/none

Frequent and prolonged eye contact may cause eye irritation.

Sensitizing effects

Due to the very low concentration of sensitizing substances, the finished product can be assumed not to be skin-sensitizing.

Carcinogenic/mutagenic/toxic effects for reproduction

The product is not classified.

Specific target organ toxicity (STOT) - repeated exposure

Frequently or prolonged contact with skin may cause dermal irritation.

Carcinogenicity (OSHA):

Carcinogenicity (IARC):

No ingredient of this mixture is listed.

Carcinogenicity (NTP):

No ingredient of this mixture is listed.

Specific effects in experiment on an animal

No data available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Practical experience

Observations relevant to classification

Has de-greasing effect on the skin.

Other observations

No special hazards known when the product is properly used and the precautionary measures indicated are observed.



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Further information

No data available.

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects. No data available.

Persistence and degradability

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants. Poorly eliminated from water.

Not easily bio-degradable (according to OECD-criteria). Product is partially biodegradable. Significant residues remain.

Post-use oils must not be discharged into the sewer system or into surface waters nor must they be allowed to enter the soil.

Bioaccumulative potential

No data available.

Do not allow uncontrolled discharge of product into the environment.

Mobility in soil

No data available.

Other adverse effects

Aquatic organisms: No data available. Effects in sewage plants No data available.

No data available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. The waste codes stated are recommendations based on the expected use of the substance and may be re-assigned to other waste codes by the user, if applicable.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Dispose of this material and its container to hazardous or special waste collection point.

14. Transport information

US DOT 49 CFR 172.101

<u>Proper shipping name:</u> Not a hazardous material with respect to these transport regulations.

Marine transport (IMDG)

UN number:No dangerous good in sense of this transport regulation.UN proper shipping name:No dangerous good in sense of this transport regulation.Transport hazard class(es):No dangerous good in sense of this transport regulation.Packing group:No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number: No dangerous good in sense of this transport regulation.



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UN proper shipping name:No dangerous good in sense of this transport regulation.Transport hazard class(es):No dangerous good in sense of this transport regulation.Packing group:No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 311/312 Hazards:

1-decene, dimer, hydrated (68649-11-6): Immediate (acute) health hazard

1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl (94270-86-7): Immediate (acute) health

Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-(9CI) (268567-32-4): Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Naphthalene (cancer); Naphthalene (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other information

Hazardous Materials Information Label (HMIS)

Health: 1
Flammability: 1
Physical Hazard: 1

NFPA Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 1

Unique Hazard:

Changes

Revision date: 22.09.2020 Revision No: 1.17

This data sheet contains changes from the previous version in section(s): 3,4,8,9,11,12.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%





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LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOFC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation

intérieures)

EmS: Emergency Schedules MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above data are intended to describe our product in terms of any safety requirements to be observed. They reflect the state of our current knowledge and experience and shall not be construed as warranted characteristics. Any warranty for accuracy and completeness shall be expressly excluded.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)