



# 1. Identification

1. Idontinoution		
Product identifier	RSC EnviroLogic HF 32	
Other means of identification		
Part No.	ELHF32	
Recommended use	Hydraulic Fluid	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufacturer		
Company name	<b>RSC Bio Solutions</b>	
Address	600 Radiator Road	
	Indian Trail, NC 28079 United States	
Telephone	Phone:	704-684-6100
	Fax:	704-257-8996
Website	www.rscbio.com	
E-mail	Not available.	
Emergency phone number	EMERGENCY PH NO:	1-800-661-3558
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The mixture does not meet the criteria for classification.	
Precautionary statement		
Prevention	Observe good industrial hy	giene practices.
Response	Wash hands after handling	l.
Storage	Store away from incompati	ble materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

# 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Synthetic Biodegradable Base Oil		178603-64-0	10 - < 20
Distillates (petroleum), Hydrotreated Heavy Paraffinic		64742-54-7	< 1
Other components below reportabl	e levels		80 - < 90
Designates that a specific shaminal is	lantity and/or paraantage of composition be	a baan withhald as a trada a	aarat

Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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Fire fighting<br/>equipment/instructionsMove containers from fire area if you can do so without risk.Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo unusual fire or explosion hazards noted.

# 6. Accidental release measures

6. Accidental release measures		
	Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
	Methods and materials for containment and cleaning up	The product is immiscible with water and will spread on the water surface.
		Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
		Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
		Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
	Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	Form	
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.	
Synthetic Biodegradable Base Oil (CAS 178603-64-0)	TWA	5 mg/m3	Inhalable fraction.	
iological limit values	No biological exposure limits noted	for the ingredient(s).		
ppropriate engineering ontrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.			

#### Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.	
Other	Wear suitable protective clothing.	
Respiratory protection	Dust mask.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

# 9. Physical and chemical properties

Physical stateLiquid.FormLiquid.ColorAmberOdorMildOdor thresholdNot available.pHNot available.Initial point/freezing pointNot available.Initial boiling point and boiling rargeNot available.Flash point401.0 °F (205.0 °C)Evaporation rateNot available.Flammability logid, gas)Not available.Flammability limit - lower (%)Not available.Flammability limit - lower (%)Not available.Explosive limit - upper (%)Not available.Flammability limit - lower (%)Not available.Explosive limit - lower (%)Not available.Explosive limit - upper (%)Not available.Explosive limit - upper (%)Not available.Explosive limit - lower (%)Not available.Cubility (water)Not available.Vapor densityNot available.Solubility (water)InsolublePartiton coefficient (n-octanol/water)Not available.Auto-ignition temperatureNot available.Not available.Not available.
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(n-octanol/water) Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity 32 cSt
Viscosity temperature 104 °F (40 °C)
Other information
Density 7.52 lbs/gal
Explosive properties Not explosive.
Flammability class Combustible IIIB estimated
Oxidizing properties Not oxidizing.
Percent volatile 0 %
Pour point -38.2 °F (-39 °C)
Specific gravity 0.9

#### voc

0 %

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

information on likely routes of e	ormation on likely routes of exposure			
Inhalation	Prolonged inhalation may be harmful.			
Skin contact	No adverse effects due to skin contact are expected.			
Eye contact	Direct contact with eyes may cause temporary irritation.			
Ingestion	Expected to be a low ingestion hazard.			
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.			
Information on toxicological effe	ects			
Acute toxicity	Not available.			
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitization	I			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to cause skin sensitization.			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.			
Not listed. OSHA Specifically Regulate Not regulated.	Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1050) ogram (NTP) Report on Carcinogens			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not an aspiration hazard.			
Chronic effects	Prolonged inhalation may be harmful.			
12. Ecological information				
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Product	Species Test Results			
RSC EnviroLogic HF 32				
Aquatic				
A 1				

Algae

Daphnia

EC50

EC50

Algae

Crustacea

> 100 ppm

> 100 ppm

Product		Species	Test Results
Fish	LC50	Fish	> 10000 ppm

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability		
Biodegradability Percent degradation (/	Aerobic biodegradation)	
RSC EnviroLogic HF 32	• •	
Bioaccumulative potential		
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

# Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 2012, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**Hazard categories** 

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

# SARA 302 Extremely hazardous substance

Not listed.

# SARA 311/312 Hazardous No chemical

#### SARA 313 (TRI reporting) Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
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Not regulated.

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Safe Drinking Water Act Not regulated.
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(SDWA)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	10-31-2016
Version #	01
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
NFPA ratings	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.