

## Section 1. Identification

Product name           RelaTECH BioBlend AW 32

Product code           ODCBIOBLEND32/5

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

Product Use           Hydraulic Oil  
For specific application advice see the appropriate Product Data Sheet or contact your company representative

Supplier                RelaDyne, LLC  
8280 Montgomery Road, Suite 101  
Cincinnati, OH 45236  
888-830-3156  
[www.reladyne.com](http://www.reladyne.com)

Manufacturer         RelaDyne, LLC  
8280 Montgomery Road, Suite 101  
Cincinnati, OH 45236  
888-830-3156  
[www.reladyne.com](http://www.reladyne.com)

Emergency Spill Information:   Contact INFOTRAC 800-535-5053

## Section 2. Hazards Identification

OSHA/HCS status       This material is non-hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Physical Hazards       Does not meet the criteria for classification.

Health Hazards         Skin Corrosion/Irritation, Category 3. ·Eye Irritant, Category 2A. ·

Environmental Hazards   Does not meet the criteria for classification.

GHS label elements

Hazard pictograms



Signal Word            Warning

Hazard Statements	Causes mild skin irritation. ·Causes serious eye irritation. ·
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Precautionary Statements

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Prevention: Wash hands thoroughly after handling. ·Wear protective gloves/protective clothing/eye protection/face protection. ·

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ·If skin irritation occurs: Get medical advice/attention. ·

Storage:

Disposal:

Hazards not otherwise classified See "Notes to Physician" under First-Aid Measures, Section 4 of this Safety Data Sheet.

### Section 3. Composition / Information on Ingredients

Substance/mixture	This material is defined as a mixture		
<u>Ingredient name</u>	<u>CAS Number</u>	<u>%/Weight</u>	
Diisodecyl Adipate	27178-16-1	5 to 10%	
Diisooctyl Adipate	103-23-1	5 to 10%	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.  
**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and therefore would require reporting in this section.**  
Occupational exposure limits, if available, are listed in Section 8

### Section 4. First Aid Measures

<u>Description of necessary first aid measures</u>	
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.
Skin contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. Chemical burns must be treated promptly by a physician
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately. Get medical attention if symptoms occur. Chemical burns must be treated promptly by a physician.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
<u>Most important symptoms/effects, acute and delayed</u>	
See Section 11 for more detailed information on health effects and symptoms	
<u>Indication of immediate medical attention and special treatment needed, if necessary</u>	
Notes to physician	Treatment in general should be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.

### Section 5. Fire-Fighting Measures

<u>Exstinguishing media</u>	
Suitable extinguishing media	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.
Unsuitable extinguishing media	Do not use water jet

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Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged in to any waterway, sewer or drain.
Hazardous combustion products	carbon oxides(carbon monoxide, carbon dioxide)
Special protective actions for fire-fighters	Evacuate the area. Prevent run off from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

## Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Immediately contact emergency personnel. No action should be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Eliminate all ignition sources. Avoid breathing vapor or mist. Ensure good ventilation. Put on appropriate personal protective equipment (See Section 8).  Depending on the extent of the release, consider the need for fire fighter/emergency responders with adequate personal protective equipment for cleaning up.
For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapor, mist, or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable protective chemical suit and chemical resistant boots. See also the information "For non-emergency personnel".
Environmental Precautions	Avoid dispersal of spilled material and runoff from contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up:

Large Spill	Stop leak if without risk. Move containers from spill area. Approach spill from upwind. Prevent entry into sewers, waterways, basements or confined areas. Wash spillages into an on-site effluent treatment plant or proceed as follows: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite, or diatomaceous earth and place in container for disposal according to local and state regulations (See Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same risk as the spilled product.
Small Spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same risk as the spilled product.

## Section 7. Handling and Storage

### Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see section 8). Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid contact of spilled material and runoff with soil and surface waterways. Avoid contact with eyes, skin and clothing. Empty containers contain product residue and may be hazardous. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container.  Store and use away from heat, sparks, open flame or any other ignition source.
Advice on general occupational hygiene	Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information on hygiene measures.

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Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10), food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. None
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## Section 8. Exposure Controls / Personal Protection

### Control parameters

#### Occupational exposure limits

Ingredient Name	OSHA TWA (mg/m <sup>3</sup> )	ACGIH TWA (mg/m <sup>3</sup> )	Manufacturers Suggested TWA (mg/m <sup>3</sup> )
Diisodecyl Adipate	NA	NA	NA
Diisooctyl Adipate	NA	NA	NA

NA = Not Available

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

#### Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Personnel must be properly trained in the use of any personal protective equipment. Your supplier of personal protective equipment should be consulted for advice selection and appropriate standards.

Use only with adequate ventilation. If user operations generate dust, fume, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

The final choice of protective equipment will depend upon risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene Measures

Ensure that eyewash stations and safety showers are close to the work location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Thoroughly wash contaminated clothing before reuse.

#### Eye Protection

Avoid Contact with eyes. Wear safety glasses with side shield or chemical goggles

### Skin Protection measures

#### Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile rubber or PVC coated gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposure). Most gloves provide only short term protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the glove supplier/manufacturer and will a full assessment of the working conditions.

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Body protection	Use of protective clothing is good industrial practice. Cotton or polyester/cotton overalls will only provide protection against light, superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spills or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist for handling this product.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory equipment should therefore be chosen with the supplier/manufacturer and with a full assessment of the working conditions.

## Section 9. Physical and Chemical Properties

### Appearance

Physical state	Liquid
Color	Amber
Odor	Mild
Odor threshold	Not available.
pH (neat)	Not Available
pH (5% in DI water)	Not Applicable
Melting/freezing point	Not available.
Initial boiling point and boiling point range	Not available.
Flashpoint, °F	200F to <350F
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable. Based on – Physical state
Lower and upper flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	7.77 pounds per gallon at 68°F
Specific gravity	0.932 gm/cm <sup>3</sup> at 20°C
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available
VOC content, %/wt	Not available. (CARB Method 310, LVC-VOC chemicals not included in this calculation)

## Section 10. Stability and Reactivity

Reactivity	No specific test data available for this product. Refer to conditions to avoid and Incompatible materials for additional information
Chemical stability:	The product is stable
Incompatible materials	Strong oxidizing agents
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization should not occur
Conditions to Avoid:	High temperatures

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Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced
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## Section 11. Toxicological Information

### Information on toxicological effects

#### Classification of individual ingredients

Acute toxicity - oral

None

Acute toxicity - dermal

None

Acute toxicity - inhalation

None

Skin corrosion/irritation

None

Serious eye damage/irritation

None

Respiratory sensitization

None

Skin sensitization

None

Germ cell mutagenicity

None

Carcinogenicity

None

Reproductive toxicity

None

Specific target organ toxicity – single exposure

None

Specific target organ toxicity – repeated exposure

None

Aspiration hazard

None

Information on likely routes of exposure      Routes of entry anticipated: Dermal, Inhalation

### Potential acute health effects

Eye contact

Causes serious eye irritation.

Skin contact

Causes mild skin irritation.

Inhalation

No known significant effects or critical hazards

Ingestion

No known significant effects or critical hazards

### Symptoms related to physical, chemical and toxicological characteristics

Eye contact

Adverse symptoms may include: pain or irritation, watering, redness.

Skin contact

Adverse symptoms may include: irritation, redness, dryness and cracking

Inhalation

No specific data

Ingestion

No specific data

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects

Not available.

Potential long term effects

Not available.

Long term exposure

Potential immediate effects

Not available.

Potential delayed effects

Not available.

#### Potential chronic health effects

General

No significant effects or critical hazards.

Carcinogenicity

No significant effects or critical hazards.

Mutagenicity

No significant effects or critical hazards.

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Teratogenicity	No significant effects or critical hazards.
Developmental effects	No significant effects or critical hazards.
Fertility effects	No significant effects or critical hazards.
<u>Numerical measures of toxicity</u>	
<u>Acute toxicity estimates</u>	
Not available.	
Other information	None

## Section 12. Ecological Information

### Toxicity

No testing has been performed by the manufacturer.

### Persistence and degradability

Expected to be biodegradable

### Bioaccumulation potential

This product is not expected to bioaccumulate through food chains in the environment

### Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) Not available.

Mobility Spillages may penetrate the soil causing ground water contamination

Other adverse effects No known significant effects or critical hazards.

Other ecological information Not available.

## Section 13. Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal**

## Section 14. Transport Information

	Land Transport DOT Classification	Sea Transport IMDG	Air Transport IATA
UN Number	Not regulated by the DOT	-	-
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Marine pollutant ERG page number	-	-	-
Additional information	-	-	-

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## Section 15. Regulatory Information

Toxic substance control act  
(TSCA)

All components of this product are listed or exempted

US Federal regulations:  
RCRA Hazardous Waste  
Code:

The generator of waste has the responsibility for proper waste identification (based on characteristics or listing), transportation and disposal

Clean Air Act, TQ:

Does not contain any substances listed under the Clean Air Act

SARA 302/304 EHS

Chemical Name	Pounds	
	RQ	TPQ
None		

CERCLA Hazardous  
Substance, RQ (40 CFR Part  
302 table 302.4)

Chemical Name	RQ (Pounds)
None	

SARA 311 / 312 Hazard  
Identification

Immediate (Acute) Health	Yes
Delayed (Chronic) Health	No
Fire	No
Reactive	No
Sudden Release of Pressure	No

SARA 313

Component	CAS Number	Weight %
None		

International Regulations:

Canadian DSL:

All components are listed or exempted

China Inventory (IECSC):

All components are listed or exempted

## Section 16. Other Information

HMIS

Health	1
Flammability	1
Physical	0

Personal Protection B - Safety Glasses, Gloves

NFPA

Health	1
Flammability	1
Instability	0

Specific Hazard

Date of issue

08/05/2019

Supersedes date

05/02/2018

Prepared by

Product Stewardship

### Notice to reader

*This Safety Data Sheet is prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. The information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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