

# Material Safety Data Sheet

Issuing Date 12-Apr-2013

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Revision Number 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Schiff MegaRed Multivitamin

**Recommended Use** Vitamins.

### Supplier Address

Schiff Nutrition  
2002 West 5070 South  
Salt Lake City  
Utah  
84104  
US  
Phone:801-975-5000  
Contact:Alexandra Merkle  
Email:Alexandra.Merkle@rb.com  
Contact Phone801-975-5000

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

This material is a nutritional supplement and is not regulated as a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Appearance** Red brown

**Physical State** Solid containing liquid.,  
Solid.

**Odor** Vanilla

### OSHA Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential Health Effects

#### Principle Routes of Exposure

Skin contact. Ingestion.

#### Acute Toxicity

##### Eyes

May cause irritation.

##### Skin

No known effect based on information supplied.

##### Inhalation

No known effect based on information supplied.

##### Ingestion

Ingestion above therapeutic dose may cause nausea, vomiting, dizziness, and headache.

#### Chronic Effects

No known effect based on information supplied.

#### Aggravated Medical Conditions

None known.

#### Environmental Hazard

See Section 12 for additional Ecological Information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Soybean oil	8001-22-7	30-60
Gelatin	9000-70-8	15-40

Fish oil	8016-13-5	10-30
Glycerin	56-81-5	7-13
Ascorbic acid	50-81-7	3-7
Zinc gluconate	4468-02-4	3-7
Beeswax	8012-89-3	1 - 5
PURIFIED WATER, USP	RR-34170-8	1 - 5
Lecithin	8002-43-5	1 - 5
Calcium carbonate	471-34-1	1 - 5
Niacinamide	98-92-0	1 - 5
Vitamin E	1406-18-4	1 - 5
Pantothenic acid	79-83-4	1 - 5
Molybdenum	7439-98-7	0.1 - 1
Magnesium oxide	1309-48-4	0.1 - 1
Selenomethionine	1464-42-2	0.1 - 1
Manganese gluconate	6485-39-8	0.1 - 1
Beta-carotene	7235-40-7	0.1 - 1
Copper gluconate	527-09-3	0.1 - 1
RED 4	1342-35-4	0.1 - 1
Vanillin	121-33-5	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1
Thiamine mononitrate	18601-90-6	0.1 - 1
Vitamin B6	8059-24-3	0.1 - 1
Riboflavin	83-88-5	< 0.1
Histidine, L-, monohydrochloride monohydrate	5934-29-2	< 0.1
Cyanocobalamin	68-19-9	< 0.1
Folic acid	59-30-3	< 0.1
Boron	7440-42-8	< 0.1
Chromium (III) chloride hexahydrate	10060-12-5	< 0.1
25,26-Dihydroxy-vitamin D3	29261-12-9	< 0.1
Caramel color I	RR-19858-3	< 0.1
Biotin	58-85-5	< 0.1
BLUE 1	1341-88-4	< 0.1

#### 4. FIRST AID MEASURES

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable.
<b>Flash Point</b>	Not determined.

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Hazardous Combustion Products</b>	Carbon oxides.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	No.
<b>Sensitivity to Static Discharge</b>	No.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>NFPA</b>	<b>Health Hazard</b> 0	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> -
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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with eyes.
<b>Environmental Precautions</b>	Refer to protective measures listed in Sections 7 and 8.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Cleaning Up</b>	Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Wear personal protective equipment.
<b>Storage</b>	Keep container tightly closed. Keep in properly labeled containers. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerin 56-81-5	TWA: 10 mg/m <sup>3</sup> mist	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	
Calcium carbonate 471-34-1		TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 15 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> respirable dust TWA: 10 mg/m <sup>3</sup> total dust
Molybdenum 7439-98-7	TWA: 10 mg/m <sup>3</sup> inhalable fraction TWA: 3 mg/m <sup>3</sup> respirable fraction		IDLH: 5000 mg/m <sup>3</sup>
Magnesium oxide 1309-48-4	TWA: 10 mg/m <sup>3</sup> inhalable fraction	TWA: 15 mg/m <sup>3</sup> fume, total particulate (vacated) TWA: 10 mg/m <sup>3</sup> total particulate	IDLH: 750 mg/m <sup>3</sup> fume
Selenomethionine 1464-42-2	TWA: 0.2 mg/m <sup>3</sup> Se	TWA: 0.2 mg/m <sup>3</sup> Se (vacated) TWA: 0.2 mg/m <sup>3</sup> Se	IDLH: 1 mg/m <sup>3</sup> Se TWA: 0.2 mg/m <sup>3</sup> except Selenium hexafluoride Se
Manganese gluconate 6485-39-8		(vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup> Mn	IDLH: 500 mg/m <sup>3</sup> Mn TWA: 1 mg/m <sup>3</sup> Mn STEL: 3 mg/m <sup>3</sup> Mn
Copper gluconate 527-09-3	TWA: 1 mg/m <sup>3</sup> Cu dust and mist		IDLH: 100 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Cu dust and mist
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Cyanocobalamin 68-19-9		TWA: 5 mg/m <sup>3</sup> CN (vacated) TWA: 5 mg/m <sup>3</sup> S*	IDLH: 25 mg/m <sup>3</sup> CN
Chromium (III) chloride hexahydrate 10060-12-5	TWA: 0.5 mg/m <sup>3</sup> Cr	TWA: 0.5 mg/m <sup>3</sup> Cr (vacated) TWA: 0.5 mg/m <sup>3</sup> Cr	IDLH: 25 mg/m <sup>3</sup> Cr(III) TWA: 0.5 mg/m <sup>3</sup> Cr

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Other Exposure Guidelines

Hexavalent chrome may be formed during welding. Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

### Personal Protective Equipment

#### Eye/Face Protection

Safety glasses with side-shields.

#### Skin and Body Protection

Protective gloves.

#### Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

### Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Red brown.	<b>Odor</b>	Vanilla.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Solid containing liquid. Solid
<b>pH</b>	No information available		
<b>Flash Point</b>	No information available.	<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available	<b>Boiling Point/Range</b>	No information available
<b>Melting Point/Range</b>	No information available		
<b>Flammability Limits in Air</b>	No information available	<b>Explosion Limits</b>	No information available
<b>Water Solubility</b>	Soluble in water.	<b>Solubility</b>	No information available
<b>Evaporation Rate</b>	No information available	<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available	<b>Partition Coefficient: n-octanol/water</b>	

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	None known.
<b>Conditions to Avoid</b>	None known.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

<b>LD50 Oral VALUE</b>	68151.7 mg/kg (rat) estimated
<b>LD50 Dermal VALUE</b>	
<b>LC50 Inhalation (DUST) VALUE</b>	
<b>LC50 Inhalation (VAPOR) VALUE</b>	

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fish oil	> 5000 mg/kg ( Rat )	-	-
Glycerin	= 12600 mg/kg ( Rat )	> 21900 mg/kg ( Rat )	-
Ascorbic acid	= 11900 mg/kg ( Rat )	-	-
Calcium carbonate	= 6450 mg/kg ( Rat )	-	-
Niacinamide	= 3500 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Vanillin	= 1580 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	-
Titanium dioxide	10000 mg/kg ( Rat )	-	-
Riboflavin	> 10 g/kg ( Rat )	-	-
Boron	= 650 mg/kg ( Rat )	-	-
Chromium (III) chloride hexahydrate	= 1790 mg/kg ( Rat )	-	-

### Chronic Toxicity

**Chronic Toxicity** No known effect based on information supplied.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Selenomethionine		Group 3		

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
Cyanocobalamin		Group 2B		
Chromium (III) chloride hexahydrate		Group 3		

**IARC: (International Agency for Research on Cancer)**

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Sensitization** Persons allergic to fish or fish oil may experience anaphylactic reaction.

**Target Organ Effects** None known.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Fish oil	EC50: 13.3 mg/L (96 h ) Desmodesmus subspicatus EC50: > 100 mg/L (72 h ) Desmodesmus subspicatus	LC50: > 10000 mg/L (96 h ) Brachydanio rerio		EC50: > 100 mg/L (48 h ) Daphnia magna
Glycerin		LC50: 51 - 57 mL/L (96 h static) Oncorhynchus mykiss		EC50: > 500 mg/L (24 h ) Daphnia magna
Niacinamide		LC50: > 1000 mg/L (96 h static) Poecilia reticulata		EC50: > 1000 mg/L (24 h ) Daphnia magna
Vanillin		LC50: 57 mg/L (96 h semi-static) Pimephales promelas LC50: 53-61.3 mg/L (96 h flow-through) Pimephales promelas LC50: 88 mg/L (96 h static) Pimephales promelas	EC50 = 179 mg/L 210 min	EC50: 180 mg/L (24 h ) Daphnia magna

Chemical Name	Log Pow
Glycerin	-1.76
Vanillin	1.23

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of in accordance with local regulations.

**California Hazardous Waste Codes** 311

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Zinc gluconate			Toxic	STLC (for PBTs): 250 mg/L TTLC (for PBTs): 5000 mg/kg
Molybdenum			Ignitable powder	STLC (for PBTs): 350 mg/L TTLC (for PBTs): 3500 mg/kg
Selenomethionine	Toxic			STLC (for PBTs): 1.0 mg/L TTLC (for P&Bs) (EHW): 10000 mg/kg as Se TTLC (for PBTs): 100 mg/kg
Copper gluconate			Toxic	STLC (for PBTs): 25 mg/L TTLC (for PBTs): 2500 mg/kg
Cyanocobalamin			Toxic	STLC (for PBTs): 80 mg/L TTLC (for PBTs): 8000 mg/kg
Chromium (III) chloride hexahydrate			Toxic Corrosive Ignitable	STLC (for PBTs): 5 mg/L TTLC (for PBTs): 2500 mg/kg

### 14. TRANSPORT INFORMATION

**DOT** NOT REGULATED

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA Complies  
 DSL Not determined

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Zinc gluconate	4468-02-4	3-7	1.0
Selenomethionine	1464-42-2	0.1 - 1	1.0
Manganese gluconate	6485-39-8	0.1 - 1	1.0
Copper gluconate	527-09-3	0.1 - 1	1.0
Cyanocobalamin	68-19-9	< 0.1	1.0
Chromium (III) chloride hexahydrate	10060-12-5	< 0.1	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard No  
 Chronic Health Hazard Yes  
 Fire Hazard No  
 Sudden Release of Pressure Hazard No  
 Reactive Hazard No

#### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc gluconate		X		
Selenomethionine		X		
Copper gluconate		X		
Cyanocobalamin		X		
Chromium (III) chloride hexahydrate		X		

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Soybean oil	8001-22-7	30-60				
Glycerin	56-81-5	7-13		Group II		
Selenomethionine	1464-42-2	0.1 - 1				
Manganese gluconate	6485-39-8	0.1 - 1				
Cyanocobalamin	68-19-9	< 0.1				
Chromium (III) chloride hexahydrate	10060-12-5	< 0.1				

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Chromium (III) chloride hexahydrate		1 lb



**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	x

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium carbonate	X	X	X		
Glycerin	X	X	X		X
Soybean oil			X		

**International Regulations****Mexico - Grade**

No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Calcium carbonate		Mexico: TWA 10 mg/m <sup>3</sup> Mexico: STEL 20 mg/m <sup>3</sup>
Glycerin		Mexico: TWA 10 mg/m <sup>3</sup>
Soybean oil	-	-

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

D2A Very toxic materials

**Legend**

NPRI - National Pollutant Release Inventory

<b>16. OTHER INFORMATION</b>
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**Prepared By**

Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

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**Revision Note**

No information available

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**General 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

**End of Safety Data Sheet**