## **SAFETY DATA SHEET**



### 1. Identification

Product Identifier Spirit AB

Other means of identification

Product code SLS-1410

**Recommended use** Non-pathogenic bacteria spotter and drain cleaner.

Recommended restrictions Professional use only.

Manufacturer/distributor/supplier/importer information

Company name Supplylink Solutions, LLC

Address P.O. Box 361

Owensville, OH 45160

**Telephone** (513) 752-5465

Emergency phone number PERS

24 hour Emergency (800) 633-8253

(800) 633-8253

## 2. Hazard(s) Identification

Physical hazards Not classified.

Health hazards Skin irritant Category 3

Environmental hazards Not classified

OSHA defined hazards Not listed.

Label elements None

Signal word Warning.

**Hazard statement** Causes mild skin irritation.

**Precautionary statement** 

Prevention

**Response** If skin irritation occurs: Get medical advice/attention

Storage Disposal

Hazard(s) not otherwise

classified (HNOC)

None

Supplemental information None

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
2-butoxyethanol	111-76-2	1-2
Other components below reportable levels		90-100

### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

**Eye contact** Rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do.

Get medical attention. Eye wash stations should be located in work area.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.

Most important Dermatitis. Rash. May cause an allergic skin reaction.

symptoms/effects, acute and

delayed

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Indication of immediate medical attention and special treatment needed

Provide general support measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing

None known.

media

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for

Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.

firefighters
Fire-fighting

Move containers from fire area if you can do so without risk.

equipment/instructions

ructions

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment and clothing during clean-up. Wear eye/face

protection.

Methods and materials for containment and cleaning up

Caution - spillages may be slippery.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

entry into waterways, sewer, basements or commed areas.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the

SDS.

**Environmental precautions** Do not release into the environment (see section 12). Avoid discharge into areas not

consistent with package labeling.

# 7. Handling and storage

Precautions for safe handling 
Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate

personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any

including any incompatibilities

Store in original tightly closed container. Do not store in extreme conditions.

## 8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

ComponentsTypeValue2-butoxyethanolPEL50 ppm

**US ACGIH Threshold Limit Values** 

ComponentsTypeValue2-butoxyethanolSTEL20 ppm

**Biological limit values** 

**ACGIH Biological Exposure Indices** 

ComponentsValueDeterminantSpeciesSampling Time2-butoxyethanol200 mg/gCreatinineUrineEnd of shift.

Appropriate engineering

Emergency eye wash stations and showers should be readily accessible. Provide natural or

controls

mechanical ventilation.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Skin protection** 

**Hand protection** Wear appropriate chemical resistant gloves.

Other None.

**Respiratory protection** Respiratory protection not required.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke or use chewing tobacco. 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.

Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** 

Physical State Milky liquid.
Color White .

Odor Apple Blossom.
Odor threshold Not available.

**pH** 6-7

Melting/freezing point Not available.

Initial boiling point and >212°F (100°C)

boiling range

Flash point >385°F (196°C)
Evaporation rate Not available.
Flammability Not available.

**Flammability Limits** 

Upper Not available.
Lower Not available.
Vapor pressure Not available.
Vapor density Not available.

Specific gravity (water=1) 1.0
Solubility in water Soluble .

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

**Decomposition temperature** Decomposes on heating.

Viscosity Not available.

Material Name: Spirit AB

## 10. Stability and reactivity

**Reactivity** This product is stable and non-reactive under normal conditions of use.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

**Conditions to avoid** Heat, flames can cause product to decompose. **Incompatible materials** Strong acids, strong bases, strong oxidizing agents.

Hazardous decomposition

products

Carbon dioxide, carbon monoxide.

# 11. Toxicological information

Information on likely routes

of exposure

IngestionExpected to be a low ingestion hazard.InhalationExpected to be a low inhalation hazard.

Skin contactRepeated and/or prolonged skin contact may cause slight irritation.Eye contactRepeated and/or prolonged eye contact may cause slight irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Dermatitis. Rash. May cause an allergic skin reaction.

Acute toxicity Not established.

Product	Route and Species	LD <sub>50</sub>
Spirit AB (CAS mixture)		
Acute	Oral, rat	48,500 mg/kg estimated
	Dermal, rat	>5,000 mg/kg estimated

<sup>\*</sup>Estimates for product may be based on additional component data not shown

**Skin corrosion/irritation** May cause mild skin irritation.

Serious eye damage/ Not classified.

irritation

Respiratory sensitizationNot classified.Skin sensitizationNot classified.Germ cell mutagenicityNot classified.

**Carcinogenicity** Not considered a carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed.

Reproductive toxicity Not classified.

Specific target organ toxicity Not classified.

- single exposure

Specific target organ toxicity

Not classified.

repeated exposure

**Aspiration hazard** Not considered an aspiration hazard.

### 12. Ecological information

### **Ecotoxicity**

			_
Product	Species	Test Results	

Spirit AB (CAS mixture)

### **Aquatic**

Daphnia Crustacea EC<sub>50</sub>(48hr): 980 mg/L estimated LC<sub>50</sub>(96hr): 400 mg/L estimated Oncorhynchus mykiss Fish

Persistence and degradability 2-butoxyethanol is considered readily biodegradable.

Bioaccumulative potential Potential to bioaccumulate is low.

Mobility in soil Not available. Other adverse effects Not available.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations. Do

not release to the environment.

Local disposal regulations

Waste from residues/unused

product

Dispose in accordance with all applicable regulations

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 Empty containers should be taken to an approved waste handling site for recycling or

disposal. Since emptied containers may contain product residue, follow label warnings even

after container is emptied.

## 14. Transport information

DOT

Not regulated as dangerous goods.

## 15. Regulatory information

**US federal regulations** 

SARA 302 Extremely hazardous substance

SARA 304 Emergency release notification

Not listed.

SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 313 (TRI reporting)

2-butoxyethanol (Glycol ether category)

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

Issue date 12/29/2014 12/29/2014 **Revision date** 

Version #

HMIS® ratings Health: 1

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<sup>\*</sup>Estimates for product may be based on additional component data not shown

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 0 Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. 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 related 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 by

the text.

**Revision information** First issue

Material Name: Spirit AB