

# HC-BVS100

## Safety Data Sheet



### SECTION 1: Identification of the substance or mixture and the company or undertaking

#### 1.1 Product identifier

Product type : Mixture  
Trade name : HC-BVS100  
Label name : HC-BVS100  
Chemical name : Soybean oil acids methyl ester  
CAS number : 67784-80-9 or 68919-53-9 or 67762-38-3  
EC number : 200-313-4

#### 1.2 Recommended and restricted uses of the substance or mixture

Recommended uses : R&D, analytical standard, reference material with COA.  
Restricted uses : None known.

#### 1.3 Company identification

Company name : Helix Research Solutions, Inc..  
Company address : 15 E. Palatine Rd., Suite 118  
Prospect Heights, IL 60070  
Company telephone : (847) 777-1335

#### 1.4 Emergency telephone number

Company emergency telephone :847-777-1335  
CHEMTREC telephone :800-424-9300

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification (29CFR1910.1200 Appendix A) : None.  
GHS physical hazard : None.  
GHS health hazard : None.  
GHS environmental hazard : None.

#### 2.2 Label warnings of the substance or mixture

Signal word : None.  
Hazard statements : None.  
Precautionary statements : None.

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Hazard symbol (pictogram) : None.



### 2.3 Hazards not otherwise classified

Other hazards : No additional information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical name	Common name	Percent	CAS number	Health hazard
Not applicable.				

### 3.2 Mixtures

Chemical name	Common name	Typical %	CAS number	Health hazard
Soybean oil acids methyl ester	Methyl soyate	98%	67784-80-9	None

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

Exposure route	First-aid measure
Inhalation	: Remove the victim into fresh air. Observe victim's breathing. If breathing is labored seek immediate medical attention.
Skin contact	: Wash with soap and water. If irritation develops, seek medical attention. Launder contaminated clothing.
Eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses if present and easy to do. If irritation occurs, seek immediate medical (ophthalmologist) attention.
Ingestion	: Rinse mouth with plenty of water. For ingestion of large quantities seek immediate medical attention. Do not induce vomiting. Contact poison control center.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms after inhalation	: Mild irritation of the nose and throat may occur.
Symptoms after skin contact	: Mild irritation of the skin may occur.
Symptoms after eye contact	: Mild irritation of the eye tissue may occur.
Symptoms after ingestion	: No known significant effects.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment after inhalation	: If breathing is labored seek immediate medical attention.
Treatment after skin contact	: If skin irritation occurs seek immediate medical attention.
Treatment after eye contact	: If eye irritation occurs seek immediate ophthalmologist attention.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable media : Carbon dioxide, alcohol resistant foam and water spray.  
Unsuitable media : None known.

### 5.2 Specific hazards arising from the substance or mixture

Direct fire hazard : Not flammable.  
Indirect fire hazard : Exposure to temperature above the flash point (130°C).  
Explosive hazard : Exposure to temperature above the flash point (130°C).  
Reactivity : Reactivity with strong oxidizers.  
Combustion products : Carbon dioxide and carbon monoxide.

### 5.3 Special protective equipment and precautions for fire-fighters

Protective equipment : Full protective clothing.  
: Self contained breathing apparatus.  
Precautions : No additional information available.  
Emergency response guide : Not a hazardous material.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Mixture is not hazardous. If mixture is a hot mist or dust, stay upwind.  
Protective equipment : Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a hot mist or dust wear dust mask or self contained breathing apparatus.  
Emergency procedures : Mark the spill area with hazard tape or cones. Contain the hot liquid spill area with suitable absorbent. Keep away from streams, rivers and lakes. If mixture is a hot mist or dust, alert immediate neighborhood to close windows and doors. Contain and dissipate hot mist or dust via spraying with water.

### 6.2 Environmental precautions

Precautions : Keep out of streams, rivers and lakes. Mixture is regulated as oil under the Clean Water Act. Abide by all laws per this regulation.

### 6.3 Methods and materials for containment and cleanup

Methods : Use chemical absorbent pigs or manually spread absorbent onto hot liquid spill area. After the mixture is absorbed, dispose in approved

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Materials

waste facility.

: Approved materials include dry earth, sand, clay, chemical absorbent, vermiculite and carbon.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Handling temperature : About 10 - 20°C.

Handling equipment : Rubber hoses or stainless steel (grade 304) lines. Stainless steel (grade 304) for pumps.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage area : Store in dry area. Store at room temperature. Store in dyke area to contain any spills. Protect from heat.

Packaging materials : Polyethylene, stainless steel (grade 304) and rubber lined or epoxy lined tanks or drums. Graphite or rubber gaskets.

Incompatibilities : Kraft or polyethylene bags for flake, bead or powder form.  
: Strong oxidizers.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Exposure controls

OSHA PEL : None.

ACGIH TLV : None.

NIOSH REL : None.

#### 8.2 Appropriate engineering controls

Engineering controls : If dust exists, install ventilation equipped with carbon canisters. Ventilation should be 10 air exchanges per hour. Local exhaust ventilation is recommended.

#### 8.3 Personal protection equipment

Personal protective equipment : Rubber gloves and safety glasses.

Personal protective equipment pictograms :



### SECTION 9: Physical and chemical properties

#### 9.1 Physical and chemical properties

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Appearance	: Light yellow.
Odor	: Mild.
Odor threshold	: No data available.
pH	: No data available.
Melting point	: No data available.
Boiling point	: 200°C.
Flash point	: 130°C Closed Cup.
Evaporation rate	: >1 (butyl acetate = 1)
Flammability	: No data available.
Lower flammability limit	: No data available.
Upper flammability limit	: No data available.
Vapor pressure	: 1.0 mm Hg at 180°C (this mixture). : 4.3x10 <sup>-8</sup> mm Hg at 25°C (stearic acid). : 3.8x10 <sup>-7</sup> mm Hg at 25°C (palmitic acid). : 1.4x10 <sup>-6</sup> mm Hg at 25°C (myristic acid).
Vapor density	: No data available.
Relative density	: 0.88
Solubility	: Complete in ethanol and acetone. : Insoluble in water.
Partition coefficient for n-octanol/water	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.

### 9.2 Other information

Other information : No additional information available.

## SECTION 10: Stability and reactivity

Reactivity	: May react violently with oxidizers.
Chemical stability	: Stable under storage conditions.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: None.
Incompatible materials	: Oxidizers and strong bases.
Hazardous decomposition products	: Carbon dioxide and carbon monoxide.

## SECTION 11: Toxicological information

### 11.1 Information on the likely routes of exposure

Inhalation exposure	: From hot mist.
Skin exposure	: From hot mist.

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Ingestion exposure : Not a likely route of exposure.  
Eye contact : From hot mist.

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

Inhalation : Labored breathing and mild irritation of the lungs may occur.  
Skin contact : Mild skin irritation may occur.  
Ingestion : Mild irritation of the mouth, tongue, esophagus and stomach may occur.  
Eye contact : Mild eye irritation may occur.

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

Inhalation : Chronic effects are not known.  
Skin contact : Chronic effects are not known.  
Ingestion : Chronic effects are not known.  
Eye contact : Chronic effects are not known.

### 11.4 Numerical measures of toxicity

Oral LD50 : Rat 17400 mg/kg.  
Skin LD50 : No data available.  
Ingestion LD50 : No data available.  
Inhalation LD50 : No data available.  
Skin primary irritation : No data available.  
Eye primary irritation : No data available.

### 11.5 Carcinogenicity

National Toxicology Program : Not listed.  
International Agency for  
Research on Cancer : Not listed.  
OSHA : Not listed.  
NIOSH : Not listed.

### 11.6 Other toxicological information

Reproductive toxicity : No data available.  
Germ cell mutagenicity : No data available.  
Respiratory or skin sensitization : No data available.  
Specific target organ toxicity,  
single exposure : No data available.  
Specific target organ toxicity,  
repeated exposure : No data available.  
Aspiration hazard : No data available.

## SECTION 12: Ecological information

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### 12.1.1 Ecotoxicity aquatic

Fish LC50 : No data available.  
Daphnia EC50 : No data available.  
Rotifer EC50 : No data available.  
Algae EC50 : No data available.

### 12.1.2 Ecotoxicity terrestrial

Ecotoxicity terrestrial : No data available.

### 12.2 Persistence and degradability

Water : No data available.  
Soil : No data available.  
Air : No data available.

### 12.3 Bio-accumulative potential

Log Kow : No data available.

### 12.4 Mobility in soil

Surface tension : No data available.  
Soil mobility : No data available.

### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available.

### 12.6 Other adverse effects

Air : Not dangerous to the ozone layer.  
Water : Mild pollutant to surface of water.

## SECTION 13: Disposal considerations

### 13.1 Description of waste residues

Storage tank residues : Hot liquid residue from tank cleaning.  
Empty package residues : Liquid residue remaining in emptied container.  
Transport trailer residues : Hot liquid residue from transport trailer cleaning.  
Absorbent material : Solid absorbent containing mixture from a spill.

### 13.2 Safe handling of waste residues

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Storage tank residues : Refer to section 7 for safe handling.  
 Empty package residues : Refer to section 7 for safe handling.  
 Transport trailer residues : Refer to section 7 for safe handling.  
 Absorbent material : Refer to section 7 for safe handling.

### 13.3 Methods of disposal

Storage tank residues : Dispose via an approved incineration facility.  
 : Dispose via an approved land fill facility.  
 Empty package residues : Dispose only in accordance with local, state and federal regulations.  
 : Remove package to an approved package cleaning and recycling facility.  
 Transport trailer residues : Dispose only in accordance with local, state and federal regulations.  
 : Clean transport trailer at an approved cleaning facility.  
 : Disposal of cleaning residues must be in accordance with local, state and federal regulations.  
 Absorbent material : Dispose via an approved incineration facility.  
 : Dispose via an approved land fill facility.  
 : Dispose only in accordance with local, state and federal regulations.

### 13.4 Hazardous waste classification (RCRA)

Classification	Regulation	Listed	Hazardous waste number
Ignitability	40CFR261.21	No	
Corrosivity	40CFR261.22	No	
Reactivity	40CFR261.23	No	
Toxicity	40CFR261.24	No	

## SECTION 14: Transport information

### 14.1 UN number

UN number : None.

### 14.2 UN proper shipping name

Proper shipping name : None.

### 14.3 Transport hazard class

Hazard class : None.  
 Hazard label : None.  
 Hazard pictogram : None.

### 14.4 Packing group

Packing group : None.



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### 14.5 Environmental hazards

Marine pollutant : Not listed.

### 14.6 Transport in bulk

US DOT : Not regulated.  
IMDG : Not regulated.  
IATA : Not regulated.  
MARPOL 73/78 : Not regulated.  
IBC code : Not regulated.

### 14.7 Special precautions for user

Special precautions : No additional information available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the substance or mixture

#### 15.1.1 US regulations

SARA 302 (40CFR355) : Not listed.  
SARA 311/312 (40CFR370.66) : Not listed.  
SARA 313 (40CFR372.65) : Not listed.  
CERCLA (40CFR302.4) : Not listed.  
California proposition 65 : Not listed.  
German WGK class : 0 (no hazard to waters).

#### 15.1.2 Chemical inventories

TSCA USA : Listed.  
AICS Australia : Listed.  
DSL Canada : Listed.  
EC Europe : Listed.  
ECL Korea : Listed.  
IECSC China : Listed.  
ENCS Japan : Listed.  
NzloC New Zealand : Listed.  
PICCS Philippines : Listed.  
SWISS Switzerland : Listed.

### 15.2 Chemical safety assessment

Safety assessment : No additional information available.

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### SECTION 16: Other information

#### 16.1 Hazard ratings

	Health	Flammability	Physical hazards	Instability
HMIS (USA)	1	1	0	
NFPA (USA)	1	1		0

#### 16.2 Safety Data Sheet information

Introduction date (MM/DD/YY) : 01/06/2019

#### 16.3 Notice to reader

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