

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture
Product name : IVC BUFFER

#### 1.2. Recommended use and restrictions on use

#### 1.3. Supplier

INNVICTIS® CROP CARE, LLC 1880 Fall River Drive, Suite 100 Loveland, CO 80538 T 855-466-8428

#### 1.4. Emergency telephone number

Emergency number : ChemTrec 1-800-424-9300

#### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Corrosive to metals, Category 1 H290 May be corrosive to metals.

Skin corrosion/irritation, Category 1B H314 Causes severe skin burns and eye damage.

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labelling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (GHS US) : P234 - Keep only in original container.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

7303+P361+P353 - If on skin (or nair): Take oir immediately all contaminated clothing. Ri

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a poison center/doctor/...

P321 - Specific treatment (see supplemental first aid instruction on this label)

P363 - Wash contaminated clothing before reuse. P390 - Absorb spillage to prevent material damage.

P405 - Store locked up.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - Dispose of contents/container to ... in accordance with local/regional/national

regulations

#### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

09/01/2021 EN (English) Page 1

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Water	(CAS-No.) 7732-18-5		Not classified
phosphoric acid	(CAS-No.) 7664-38-2		Met. Corr. 1, H290 Skin Corr. 1B, H314
4-nonylphenol, branched, ethoxylated	(CAS-No.) 127087-87-0		Not classified
Polydimethylsiloxane	(CAS-No.) 63148-62-9		Eye Irrit. 2A, H319
xanthan gum	(CAS-No.) 11138-66-2		Not classified

Full text of hazard classes and H-statements: see section 16

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

# 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

#### **SECTION 5: Fire-fighting measures**

# 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

09/01/2021 EN (English) 2/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

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

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products

: Strong bases. Strong acids.

Incompatible materials

: Sources of ignition. Direct sunlight.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

IVC BUFFER		
No additional information available		
Water (7732-18-5)		
No additional information available		
Polydimethylsiloxane (63148-62-9)		
No additional information available		
xanthan gum (11138-66-2)		
No additional information available		
4-nonylphenol, branched, ethoxylated (127087-87-0)		
No additional information available		
phosphoric acid (7664-38-2)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	1 mg/m³	
ACGIH STEL (mg/m³)	3 mg/m³	

# 8.2. Appropriate engineering controls

# 8.3. Individual protection measures/Personal protective equipment

# Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

09/01/2021 EN (English) 3/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Colour : Colourless Odour : characteristic Odour threshold No data available No data available рΗ : No data available Melting point Freezing point No data available Boiling point No data available Flash point No data available Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) : Non flammable. Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available : No data available Solubility Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature No data available Decomposition temperature : No data available Viscosity, kinematic No data available Viscosity, dynamic No data available **Explosive limits** : No data available Explosive properties No data available Oxidising properties : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Polydimethylsiloxane (63148-62-9)	
LD50 oral rat	> 15400 mg/kg bodyweight (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit; Literature study)
xanthan gum (11138-66-2)	
LD50 oral rat	45000 mg/kg (Rat)

09/01/2021 EN (English) 4/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<u> </u>	
4-nonylphenol, branched, ethoxylated (127087-87-0)	
LD50 oral rat	16000 mg/kg (Rat)
LD50 dermal rabbit	4490 mg/kg (Rabbit)
phosphoric acid (7664-38-2)	
LD50 oral rat	(Rat)
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause serious eye damage
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Symptoms/effects

Polydimethylsiloxane (63148-62-9)	
LC50 fish 1	350 mg/l (96 h; Pleuronectes platessa)
phosphoric acid (7664-38-2)	
LC50 fish 1	138 mg/l (96 h; Pisces; Pure substance)
LC50 other aquatic organisms 1	240 mg/l (96 h; Protozoa; Pure substance)
LC50 fish 2	100 – 1000 mg/l (Pisces; Pure substance)
LC50 other aquatic organisms 2	100 – 1000 mg/l (Pure substance)
TLM fish 1	138 ppm (24 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	240 mg/l (96 h; Protozoa; Pure substance)
Threshold limit other aquatic organisms 2	100 - 1000,Pure substance

: Not expected to present a significant hazard under anticipated conditions of normal use.

# 12.2. Persistence and degradability

IVC BUFFER		
Persistence and degradability	Not established.	
Water (7732-18-5)		
Persistence and degradability	Not established.	
Polydimethylsiloxane (63148-62-9)		
Persistence and degradability	Biodegradability in water: no data available. Forming sediments in water. Biodegradable in the soil. No (test)data on mobility of the substance available. Not established.	
xanthan gum (11138-66-2)		
Persistence and degradability	Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.25 g O₂/g substance	
4-nonylphenol, branched, ethoxylated (127087-87-0)		
Persistence and degradability	Biodegradable in water. No (test)data on mobility of the substance available. Not established.	

09/01/2021 EN (English) 5/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

phosphoric acid (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

## 12.3. Bioaccumulative potential

IVC BUFFER		
Bioaccumulative potential	Not established.	
Water (7732-18-5)		
Bioaccumulative potential	Not established.	
Polydimethylsiloxane (63148-62-9)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
xanthan gum (11138-66-2)		
Bioaccumulative potential	No bioaccumulation data available.	
4-nonylphenol, branched, ethoxylated (127087-87-0)		
Bioaccumulative potential	Low potential for bioaccumulation (molecular mass >=700 g/mol). Not established.	
phosphoric acid (7664-38-2)		
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Estimated value)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	

## 12.4. Mobility in soil

Polydimethylsiloxane (63148-62-9)	
Ecology - soil	Not toxic to plants.

# 12.5. Other adverse effects

Other information : Avoid unintentional release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid unintentional release to the environment.

# **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Other information : No supplementary information available.

**Transportation of Dangerous Goods** 

Transport by sea

Air transport

09/01/2021 EN (English) 6/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

#### **IVC BUFFER**

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Polydimethylsiloxane (63148-62-9)	
EPA Labeling Requirements	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
xanthan gum (11138-66-2)	
EPA Labeling Requirements	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
4-nonylphenol, branched, ethoxylated (127087-87-0)	
EPA Labeling Requirements	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
phosphoric acid (7664-38-2)	
CERCLA RQ	5000 lb

#### 15.2. International regulations

#### **CANADA**

Water (7732-18-5)	
Listed on the Canadian DSL (Domestic Substances List)	
	Polydimethylsiloxane (63148-62-9)

oryalinetry ishoxane (05140-02-5)

Listed on the Canadian DSL (Domestic Substances List)

#### xanthan gum (11138-66-2)

Listed on the Canadian DSL (Domestic Substances List)

# 4-nonylphenol, branched, ethoxylated (127087-87-0)

Listed on the Canadian DSL (Domestic Substances List)

#### phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

**National regulations** 

No additional information available

#### 15.3. US State regulations

Component	State or local regulations
phosphoric acid(7664-38-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

# Full text of H-statements:

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

09/01/2021 EN (English) 7/8

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SDS US (GHS HazCom 2012)

This 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.

09/01/2021 EN (English) 8/8