



# VELSIFLEX<sup>®</sup> 332

Product No: Plasticizer - 007

## Safety Data Sheet

Version: 4.0 / EN

Revision date: Mar. 16, 2022

### SECTION 1: Identification

#### 1.1 Product identifier

Trade Name: VELSIFLEX<sup>®</sup> 332

Chemical Name: mixture of benzoate esters.

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

##### 1.2.1 Relevant identified uses

Industrial applications: Plasticizer.

##### 1.2.2 Uses advised against

No specific uses advised against have been identified.

#### 1.3 Details of the supplier of the safety data sheet

##### Velsicol Chemical LLC

10400 W. Higgins Road, Suite 303

Rosemont, Illinois 60018 USA

Phone: (847) 813-7888

Fax: (847) 768-3227

Email: [customerservice@velsicol.com](mailto:customerservice@velsicol.com)

#### 1.4 Emergency telephone number

Outside the continental U.S.A. call CHEMTREC 1-800-424-9300 (24 hours)

In the continental U.S.A. call CHEMTREC 1-800-424-9300 (24 hours)

### SECTION 2: Hazard(s) identification

#### 2.1 Hazard classification and Hazard statement(s)

Inhalation and skin contact are expected to be the primary routes of occupational exposure to VELSIFLEX<sup>®</sup> 332. This material is not expected to cause significant adverse human health effects when used in accordance with good industrial hygiene and safety practices are followed. Repeated or prolonged exposure is not known to aggravate any existing medical condition.

OSHA Specified Hazards: None known.

Hazard(s) not otherwise classified (HNOC): None known.

#### 2.2 Precautionary statements

Avoid release to the environment

Dispose of contents/container in accordance with local/regional/ national/international regulations

#### 2.3 Signal Word

No signal word

#### 2.4 Pictograms

No Pictogram

#### 2.5 Other hazards

None known

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

#### 3.1 Substances

Not applicable



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### 3.2 Mixtures

Chemical Name	CAS number	% by Weight
Benzoate esters	Proprietary	Proprietary

## SECTION 4: First-aid measures

### 4.1 Description of first aid measures

#### 4.1.1 General information:

Inhalation and skin contact are expected to be the primary routes of occupational exposure to VELSIFLEX<sup>®</sup> 332. This material is not expected to cause significant adverse human health effects when used in accordance with good industrial hygiene and safety practices are followed.

Chronic health effects: None known.

Carcinogenic status: Not listed or regulated by IARC, NTP, OSHA, or ACGIH.

None expected reproductive effects.

#### 4.1.2 Following inhalation:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms occur.

#### 4.1.3 Following skin contact:

Flush the area with plenty of water. Remove material from clothing. Wash clothing before reuse.

#### 4.1.4 Following eye contact:

Flush with plenty of water. Seek medical attention if irritation persists.

#### 4.1.5 Following ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

#### 4.1.6 Self-protection of the first aider:

Wear protective gloves/protective clothing/eye protection/face protection if possible. Do not get in eyes, on skin, or on clothing.

#### 4.1.7 Notes for the doctor

Not available.

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

None known

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

None known

Treat symptomatically

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Flammability Properties: Non-flammable liquid. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

Suitable extinguishing media: Use water spray, dry chemicals, CO<sub>2</sub>, or foam.

Unsuitable extinguishing media: Do not use water jet



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

Products of combustion are carbon oxides (CO, CO<sub>2</sub>).

### 5.3 Advice for fire fighters

Firefighters and others who may be exposed to products of combustion should wear full firefighting turn out gear and self-contained breathing apparatus. Firefighting equipment should be thoroughly decontaminated after use.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing; Evacuate the danger area or to consult an expert.

#### 6.1.2. For emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing; Removal of ignition sources, provision of sufficient ventilation;

### 6.2 Environmental precautions

Do not allow to enter sewers / surface or ground water.

In case of spillage to water course or public sewers inform responsible authorities.

### 6.3 Methods and materials for containment and clearing up

Small Spill - Absorb with an inert material and place in an appropriate waste disposal container.

Large Spill - Stop the leak if possible. Remove all ignition sources. Ventilate the area involved. Absorb with an inert material and put the spilled material in an appropriate waste disposal container.

### 6.4 References to other sections

See sections 8 and 13 for further advice.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures:** Do not handle until all safety precautions have been read and understood; Wear suitable protective clothing, gloves and eye/face protection.

**Measures to prevent aerosol and dust generation:** Provide ventilation if necessary to minimize exposure. Do not breathe dust/fumes/gas/mist/vapours/spray;

**Measures to protect the environment:** Avoid release to the environment.

**Advice on general occupational hygiene:** Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing. Keep away from sources of ignition.

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

Store in well ventilated area away from sources of ignition; Keep container tightly closed. Keep away from heat, sparks and open flames.

Storage Temperatures: 36 °F to 150 °F; and shelf life: 2 years.



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### 7.3 Specific end uses(s)

Plasticizer products will soften plastic materials and as a result they should not be transported in piping systems constructed from these materials.

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

No national limits have been set for Occupational Exposure Limit values of this product.

### 8.2 Exposure controls

Ventilation must be adequate to maintain the ambient workplace atmosphere.

#### 8.2.1 Appropriate engineering controls:

Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation.

#### 8.2.2 Personal protective equipment:

Do not eat, drink, or smoke whilst working. Keep away from foodstuffs, beverages and feed. Remove all contaminated clothing. Wash hands before breaks and at the end of work.

#### Respiratory protection

Respiratory protection is not needed with proper ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Hand Protection

Chemical resistant coveralls, gloves and boot covers. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

#### Eye and face protection

Safety glasses should be worn when handling this substance.

#### Skin protection

Aprons or coveralls are recommended. These should be changed after use or if contaminated.

### 8.3 Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Clear Liquid, light yellow
Odour:	Mild ester-like
Odour threshold:	Not available
Bulk Density:	Not available
pH:	Neutral
Melting/Freezing point:	<16°C
Boiling point:	>350°C @ atm
Flashpoint:	224 °C (COC)
Evaporation rate:	Not available
Flammability:	Not available
Vapor pressure:	0.0013 Pa at 25°C
Vapour density:	Not available
Specific Gravity:	1.16, 25°C / 25°C



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Refractive index:	1.54 at 25°C
Solubility in water:	0.0357 g/l at 20°C
Solubility in other solvents:	Not available.
Surface tension:	61.1 mN/m at 21.2°C
Partition coefficient: n-octanol/water	log Pow 2.79-3.96 at 30°C
Volatile by weight	Not available
Auto ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity	111 mm <sup>2</sup> /s at 20°C
Explosive properties	Not considered to be explosive
Oxidising properties	Not considered to be oxidising
Dissociation Constant:	Not available
Molecular Weight (cal.)	326.5

### 9.2 Other information

Not available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not a reactive substance and no reactive hazards are expected.

### 10.2 Chemical stability

This substance is stable under normal condition

### 10.3 Possibility of hazardous reactions

No hazardous reactions expected under normal conditions of use.

### 10.4 Conditions to avoid

Excessive heat and ignition sources.

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide and hydrocarbons.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Velsicol Chemical LLC has not conducted toxicity tests on VELSIFLEX® 332. However, toxicity data are available on the components of this material.

No data available for this product, but there are information for the components.

Specified benzoate esters:

#### Acute toxicity

All components have acute median lethal oral doses LD50 > 3900 mg/kg body weight.

All components have acute lethal dermal dose LD50 > 2000 mg/kg body weight.



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### **Skin corrosion/irritation**

Components are not irritating to the skin and are not considered to be a primary skin irritant.

### **Serious eye damage/irritation**

Components are slight irritants to the eyes (Rabbit, 4 h)

### **Respiratory/skin sensitisation**

Components do not produce evidence of skin sensitization (delayed contact hypersensitivity) (Species: Guinea pig )

### **Germ cell mutagenicity**

Components showed no evidence of mutagenic activity in tests.

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available

### **STOT-single exposure**

No data available

### **STOT-repeated exposure**

The NOEL established for dietary study is 1000 – 10000 mg/kg/day.

### **Aspiration hazard**

No data available

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Velsicol Chemical LLC has not conducted toxicity tests on VELSIFLEX® 332. However, toxicity data are available on the components of this material.

**No data available for this product, but there are information for the components.**

#### **Specified benzoate esters:**

##### **Acute toxicity**

Fish (96 h), LC50 > 2.9 mg/l

Daphnia and other aquatic invertebrates (48h), EL50 > 6.7 mg/l

Algae (Growth rate, 72 h), EL50 > 4.9 mg/l

### **12.2 Persistence and degradability**

Components are readily biodegradable (CO2 Evolution Test) and therefore are not persistence.

### **12.3 Bio-accumulative potential**

No data available.

### **12.4 Mobility in soil**

Distribution among environ-mental compartments:

log Koc: 3.2 - 3.6

### **12.5 Results of PBT and vPvB assessment**



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Components are not PBT or vPvB based upon experimental data.

### 12.6 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recycle to process, if possible. Consult your local or regional authorities for disposal options.

## SECTION 14: Transport information

The substances are not regulated as a dangerous good under ADR, IMDG, IATA and DOT. HS Code: 2916.31.90

## SECTION 15: Regulatory information

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

All chemical components in this material are included on or exempted from listing on the following inventories: Australia (AICS), Canada (DSL), China (IECSC), Europe (ELNECS), Japan(ENCS), Mexico(INSQ), Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), & United States (TSCA)

### 15.2 Chemical Safety Assessment

#### HMIS Rating

Health: 1      Flammability: 1      Reactivity (Stability): 0      Personal Protection: X

#### NFPA Rating

Health: 1      Flammability: 1      Reactivity (Stability): 0      Specific Hazard: X

Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.

## SECTION 16: Other information

### 16.1 Indication of changes

This is the first SDS under OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)) July 14, 2017

Update section 2 to remove Aquatic Chronic, category 3 classification: 16 May 2018

Update Section 2, 3 and 16: 13 January 2021

Updated Section 9, 16 March 2022

### 16.2 Key literature references and sources for data

Hazard Communication Standard (HCS)(29 CFR 1910.1200(g)) and Appendix B, C, D  
Information on Chemicals, ECHA website: <http://echa.europa.eu/information-on-chemicals>  
Ariel WebInsight, 3E Company.com  
Product Data Sheet and SDS information from manufacturer.

### 16.3 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS)(29 CFR 1910.1200(g)),

### 16.4 Training advice: accordance with Hazard Communication Standard (HCS)(29 CFR 1910.1200(g))



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### 16.5 Department issuing data sheet

#### Contact Information

SDS or Regulatory information, contact: Dawei Li Velsicol Chemical LLC 1199 Warford Street Memphis, TN 38108 Phone: 901-323-6226, ext. 124 Fax: 901-324-5897 Email: dli@velsicol.com	Technical or Product Support Information, contact: Sherman Friedman Velsicol Chemical LLC 10400 W. Higgins Road Rosemont, IL 60018 U.S.A. Phone: 847-635-3486 Fax: 847-298-9018 Email: sfriedman@velsicol.com
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### 16.6 Further information: Notice to Reader

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.