Safety Data Sheet



Product No: Plasticizer - 006

VELSIFLEX<sup>®</sup> 318

Version: 5.0 / EN Revision date: Sep. 26, 2024

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

## 1.1 Product identifier

VELSIFLEX<sup>®</sup> 318 Proprietary blend 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: Plasticizing agent.

- **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: 1 877-847-8351

Email: 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® 318 This material is not expected to cause 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





Product No: Plasticizer - 006

VELSIFLEX<sup>®</sup> 318

Version: 5.0 / EN Revision date: Sep. 26, 2024

3.2	Mixtures			
	Chemical Name	CAS numbers	% by Weight	
	Benzoate esters	Proprietary	Proprietary	

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

#### 4.1 Description of first aid measures

#### 4.1.1 General information:

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. Reproductive effects: None Expected.

See Section 11 for toxicological information.

#### 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. Contaminated work clothing should not be allowed out of the workplace. Get medical attention immediately.

4.1.7 Notes for the doctor: Not available.

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

High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory tract and mucous membranes.

**4.3 Indication of any immediate medical attention and special treatments needed** None known

## 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: dry chemicals, CO2, water spray or foam. Unsuitable extinguishing media: Do not use water jet



# VELSIFLEX<sup>®</sup> 318

Product No: Plasticizer - 006

Safety Data Sheet

Version: 5.0 / EN Revision date: Sep. 26, 2024

#### 5.2 Special hazards arising from the substance or mixture Products of combustion are carbon oxides (CO, CO2)

Products of combustion are carbon oxides (CO, CO2).

## 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; Ventilate the area involved.

## 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. Storage Temperatures: 38 °F to 150 °F; and shelf life: 2 years.

## 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.

## Safety Data Sheet



Product No: Plasticizer - 006

VELSIFLEX<sup>®</sup> 318

Version: 5.0 / EN Revision date: Sep. 26, 2024

## **SECTION 8. Exposure controls/personal protection**

#### 8.1 Control parameters

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

#### 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. Use respirator in accordance with manufacturer's use limitations.

#### Hand Protection

It is a good industrial hygiene practice to minimize skin contact.

#### Eye and face protection

Safety glasses should be worn when handling this substance.

#### Skin protection

It is a good industrial hygiene practice to minimize skin contact.

### 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, free of particulates
Odour:	Mild ester-like
Odour threshold:	Not available
pH:	Not available
Melting/Freezing point:	May start to solidify at < 16°C (60.8°F)
Boiling point:	>350 °C @atm
Flashpoint:	192°C (COC)
Evaporation rate:	Not available
Flammability:	Not flammable
Vapor pressure:	<1 mm Hg @ 20°C
Vapour density:	11.2 (Air=1)
Specific Gravity:	1.155 - 1.165, 25°C/ 25°C
Refractive index:	1.535 at 25°C
Solubility in water:	slightly soluble
Solubility in other solvents:	No data available
Surface tension:	43.0 @ 25°C
Partition coefficient:	3-4
Volatile by weight	Not available
Auto ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity	90 cps @ 25°C





# VELSIFLEX<sup>®</sup> 318

Product No: Plasticizer - 006

Version: 5.0 / EN Revision date: Sep. 26, 2024

Not considered to be explosive	
Not considered to be oxidising	
Not available	
Not available	

#### 9.2 Other information

Some of the number specified are typical values and do not represent a specification.

#### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** Not a reactive substance and no reactive hazards are expected.
- **10.2 Chemical stability** The product is stable.
- **10.3 Possibility of hazardous reactions** No hazardous reactions expected under normal conditions of use. Can decompose at elevated temperatures.
- **10.4** Conditions to avoid Excessive heat and ignition sources.
- **10.5** Incompatible materials Slightly reactive to reactive with oxidizing agents, acids, and alkalis.
- **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<sup>®</sup> 318. However, toxicity data are available on the components of this material.

Inhalation and skin contact are expected to be the primary routes of occupational exposure to VELSIFLEX<sup>®</sup> 318.

#### Acute toxicity

This product is not classified as acute toxic for all exposure route listed above.

#### Specified substance(s)

Benzoate esters:

No deaths were seen in rats exposed to a 200 mg/L atmosphere in air for four hours. The acute lethal dermal dose to rats was demonstrated to be greater than 2000 mg/kg body weight.

#### Skin corrosion/irritation

Product is not irritating to the skin and is not considered to be a skin irritant.

## Serious eye damage/irritation

Not irritants to the eye.

#### Respiratory/skin sensitisation

Not produce evidence of skin sensitization (delayed contact hypersensitivity) in any of the animals tested.

## Germ cell mutagenicity

Not classified

Carcinogenicity Not classified (No data available).

# Safety Data Sheet



## Product No: Plasticizer - 006

VELSIFLEX<sup>®</sup> 318

Version: 5.0 / EN Revision date: Sep. 26, 2024

#### **Reproductive toxicity**

A dietary concentration of 10000 ppm should be considered as the No-Observed-Effect-Level (NOEL)

#### STOT-single exposure

Not classified (No data available).

## STOT-repeated exposure

The NOAEL was 1000 mg/kg bw/day

## Aspiration hazard

Not classified (No data available).

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Velsicol Chemical LLC has not conducted toxicity tests on VELSIFLEX<sup>®</sup> 318. However, toxicity data are available for similar material.

No observed effect level: 1000 ppm for earthworm. EC50: > 10 mg/l for Bacteria (Pseudomonas putida)

#### **12.2 Persistence and degradability** Readily biodegradable and therefore is not persistence.

- **12.3 Bioaccumulative potential** QSAR data suggests not bio-accumulative.
- **12.4 Mobility in soil** No specific information available
- **12.5 Results of PBT and vPvB assessment** 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

This substance is not under control of 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 substances in this material are included on or exempted from listing on the following inventories:

Australia (AICS), Canada (DSL), China (IECSC), Europe (ELNECS), Philippines (PICCS), & United States (TSCA)

SARA 313 Components

No chemical components that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Hazardous Air Pollutants (HAPs) Very low VOCs (due to high boiling point and high temperature manufacture process) and HAPs not available (https://dep.wv.gov/daq/Air%20Toxics/Pages/HazardousAirPollutants(HAPs)List.aspx).

# Safety Data Sheet



## VELSIFLEX<sup>®</sup> 318

Product No: Plasticizer - 006

Version: 5.0 / EN Revision date: Sep. 26, 2024

National Pollutant Release Inventory (NPRI)		
No chemical components listed in NPRI		
(https://pollution-waste.canada.ca/national-release-inventory/PredefinedQueries/1)		

#### 15.2 Chemical Safety Assessment

HMIS Rating Health: 1	Flammability: 1	Reactivity (Stability): 0	Personal Protection: X
<b>NFPA Rating</b> 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

- V1: This is the first SDS under OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)) 31 October 2016 V2: update Section 2, 3, 11 and 12: 15 November 2016
- V3: update Section 2, 3 and 16. 13 January 2021
- V4: updated Section 9, 16 March 2022
- V5: updated Section 15, June 2022

Update in in Section 1: change phone number and delete fax number, 26 September, 2024

#### 16.2 Key literature references and sources for data Hazard Communication Standard (HCS)(29 CFR 1910.1200(g)) and Appendix B, C, D 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))

## 16.5 Department issuing data sheet

#### Contact Information

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

#### **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.