



VELSIFLEX[®] 342S

Safety Data Sheet

Product No: Plasticizer - 004

Version: 9.0 / EN
Revision date: Mar. 16, 2022

SECTION 1: Identification

1.1 Product identifier

Trade Name: VELSIFLEX[®] 342S
Proprietary blend of Dipropylene glycol dibenzoate (DPGDB) and other 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 for adhesives, caulks, flooring and paints.

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

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)

Not classified as hazardous substance.

Inhalation and skin contact are expected to be the primary routes of occupational exposure to VELSIFLEX[®] 342S. 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.

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	Common name and synonyms	CAS number	% by Weight
Dipropylene glycol dibenzoate	oxydipropyl dibenzoate, DPGDB	27138-31-4	Major component
Benzoate Esters	Proprietary	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[®] 342S. 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

May cause eye and skin irritation. 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



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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 dry chemicals, CO₂, water spray or foam.

Unsuitable extinguishing media: Do not use water jet

5.2 Special hazards arising from the substance or mixture

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; Removal of ignition sources, provision of sufficient ventilation; 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.



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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: 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.

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.

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, free of particulates
Odour:	Mild ester-like
Odour threshold:	Not available
Bulk Density:	Not available



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pH:	Not available
Melting/Freezing point:	-40°C
Pour point:	-19°C
Boiling point:	232°C @ 5 mm Hg
Flashpoint:	199°C (COC)
Evaporation rate:	Lower than 1 compared to Butyl acetate.
Flammability:	Not flammable
Vapor pressure:	1.2 E-06 mmHg at 25°C
Vapour density:	11.8 (Air = 1)
Specific Gravity:	1.120-1.125, 25°C / 25°C
Refractive index:	1.5282 at 25°C
Solubility in water:	Negligible
Solubility in other solvents:	Easily soluble in methanol, diethyl ether, and acetone.
Surface tension:	Not available
Partition coefficient:	Not available
Volatile by weight	<3%
Auto ignition temperature:	Not <400°C (752°F) at 760 mm Hg (DPGDB)
Decomposition temperature:	Not available
Viscosity	120 cps, Brookfield @ 25°C
Explosive properties	Not considered to be explosive
Oxidising properties	Not considered to be oxidising
Dissociation Constant:	Not available
Molecular Weight	Not available

9.2 Other information

Some of the number specified above 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

This substance is stable.

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

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® 342S. However, toxicity data are available on the components of this material.



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Not classified (based on available data, the classification criteria are not met).

Acute toxicity

DPGDB: The acute median lethal oral doses (LD50) to male and female rats were calculated to be: 5072 mg/kg bodyweight (males), 3295 mg/kg bodyweight (females), and 3914 mg/kg bodyweight (both sexes).

DPGDB: 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

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

Serious eye damage/irritation

DPGDB is not irritants to the eye.

Respiratory/skin sensitisation

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

Germ cell mutagenicity

DPGDB showed no evidence of mutagenic activity in this bacterial system.

Carcinogenicity

Not classified (No data available).

Reproductive toxicity

A dietary concentration of dipropylene glycol dibenzoate (DPGDB) at 10000 ppm should be considered as the No-Observed-Effect-Level (NOEL) for P (F0) and F1 parent animals. The No-Observed-Adverse-Effect-Level (NOAEL) for survival and growth of the offspring is considered to be 10000 ppm.

STOT-single exposure

Not classified (No data available).

STOT-repeated exposure

The NOAEL is 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[®] 342S. However, toxicity data are available on the components of this material.

No observed effect level: 1000 ppm, earthworm. EC50: > 10 mg/l, Bacteria (*Pseudomonas putida*)
DPGDB: The EL50 (Area under the curve 72 h) was 1.1 mg/L and the EL50 (Growth rate 0-72 h) was 4.9 mg/L while the EL50 (Area under the curve 96 h) was 0.95 mg/L and the EL50 (Growth rate 0-96 h) was 3.6 mg/L.

12.2 Persistence and degradability

DPGDB is readily biodegradable and therefore is not persistence.

12.3 Bio-accumulative potential



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QSAR data suggests that DPGDB is not bio-accumulative.

12.4 Mobility in soil

No specific information available

12.5 Results of PBT and vPvB assessment

DPGDB is 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 248-258-5), Japan(ENCS (3)-1390), Mexico(INSQ), Korea (KECI KE-27719), 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)) 30 October 2013

Update section 15, added Chemical Safety Assessment: 25 November 2014

Change VELSIFLEX[™] to VELSIFLEX[®], Updated Section 2.1, 7.2: 13 March 2015

Update address on Section 1: 6 June 2016

Update Section 9 on Flashpoint: 18 May, 2016

Update section 2 on Signal Word: No signal word: 16 January 2017



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

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.