

Vic-Plus SDS

(Safety Data Sheet)

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

1.1. Product Identifier

Product name : Vic-Plus

1.2. Intended Use Of The Product

Use of the substance/preparation : Wax based urethane dry film lubricant. For professional use only.

1.3. Name, Address, And Telephone Of The Responsible Party

Company

Victaulic Company
4901 Kesslersville Road
Easton, PA 18045
610-559-3300
web: www.victaulic.com

Supplier

Coatings for Industry, Inc.
319 Township Line Road
Souderton, PA 1964
215-723-0919

1.4. Emergency telephone number

Emergency number : 610-559-3300 Hours 9am-5pm EST M-F

CHEMTREC Emergency (US and Canada Only) : 1-800-424-9300

CHEMTREC Emergency (International) : 1-703-741-5970

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Reproductive toxicity (Category 1B)

Skin corrosion / irritation (Category 2)

Serious eye damage / irritation (Category 2A)

Specific target organ toxicity - Single Exposure (Category 3)

2.2. Label Elements

Signal Word

: Warning



Hazard Statements

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H360: May damage fertility or the unborn child.

Precautionary Statements

- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat / sparks / flames / hot surfaces. No smoking.
- P261: Avoid breathing dust / fume / gas / mist / vapors / spray.
- P264: Wash hands thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves / protective clothing / eye protection / face protection.
- P302 + P352: IF ON SKIN: Wash with soap and water.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313: If exposed or concerned: Get medical advice / attention.
- P362: Take off contaminated clothing and wash before reuse.
- P403 + P233 + P235: Store in a well ventilated place. Keep container tightly closed. Keep cool.

2.3. Other Hazards

No additional information available

SECTION 3: Composition/information on ingredients

Ingredient	CAS Number	EC Number	Percent	Hazardous	Chemical Characterization
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	2.5%	Yes	Substance
1,2-Propanediol	57-55-6	200-338-0	2.0%	Yes	Substance
Non-hazardous ingredients are undisclosed as trade secrets					

SECTION 4: Description of first aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
- First-aid measures after skin contact : Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.
- First-aid measures after eye contact : Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
- First-aid measures after ingestion : Get medical attention immediately. Do NOT induce vomiting, unless instructed to do so.

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

- Symptoms/injuries : Not expected to present a significant health hazard under normal conditions of use.
- Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation.
- Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.
- Symptoms/injuries after eye contact : May cause eye irritation.
- Symptoms/injuries after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation.

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

If you feel unwell, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Protein type air foams, water spray, ABC dry chemical.

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flash Point >200F

Explosion hazard : Material will not sustain combustion but closed containers may explode due to build-up of steam pressure when exposed to heat.

Reactivity : See Explosion hazard, above.

5.3. Advice for firefighters

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves.) Avoid contact with this material during fire-fighting operations. If contact is likely, change to full chemical resistant fire-fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections within this SDS.

Special Information: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to: Carbon Monoxide, Carbon Dioxide.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

6.2. Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and / or groundwater.

6.3. Methods and materials for containment and cleaning up

Prevent from entering into soil, ditches, sewers, waterways and / or groundwater. Contain spilled material. Soak up large spill residue and small spills with an inert absorbent. Collect in suitable and properly labeled containers as specified in Section 7. Wash the spill area with soap and water. See Section 9 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash thoroughly after handling this product. Use under well ventilated conditions.

Under normal conditions of use, curing (heating) of this polymer may generate a small amount of dimethyl ethanol amine. Substrates coated or impregnated with this polymer can emit dimethyl ethanol amine until the polymer is fully reacted.

7.2. Conditions for safe storage, including any incompatibilities

Do not store in open, unlabeled or mislabeled containers. Do not allow product to freeze. Do not puncture or stack drums. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

7.3. Specific end use(s)

Wax based urethane dry film lubricant. For professional use only.

SECTION 8: Exposure Controls / Personal Protection

8.1. Controls parameters

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL)	: None listed.
ACGIH Threshold Limit Value (TLV)	: None listed.
USA. Workplace Environmental Exposure Levels (WEEL)	: N-methyl-2-pyrrolidone (872-50-4) TWA 10.0 ppm 1,2-Propanediol (57-55-6) TWA 10 mg/m ³

8.2. Exposure controls / personal protection

- Ventilation System** : A system of local and / or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
- Personal Respirators (NIOSH Approved)** : Wear a respirator approved by NIOSH/MSHA (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the exposure limit(s) of any chemical substance listed in this SDS. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).
- Skin Protection** : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.
- Hand Protection** : Use gloves chemically resistant to this material.
- Eye Protection** : Use chemical safety goggles and / or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Milky white liquid
Odor	: Slight
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash Point	: No data available
Auto-ignition temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 0.98-1.02
Solubility	: Soluble-water based
Log Pow	: No data available
Log Kow	: No data available
Viscosity	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

See 10.3.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems.

10.4. Conditions to avoid

Do not freeze.

10.5. Incompatible materials

Acidic conditions will cause the urethane resin to precipitate out of solution.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, and oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - 1-Methyl-2-pyrrolidone (872-50-4) : Oral LD50 (rat): 3,914 mg/kg; Dermal LD50 (rabbit): 8,000 mg/kg
 Acute toxicity - 1,2-Propanediol (57-55-6): Oral LD50 (rat): 20,000 mg/kg; Dermal LD50 (rabbit): 20,800 mg/kg
 LD50 (rat)

Potential Health Effects:

Eye Contact : May cause serious eye irritation.
 Skin Contact : May be harmful if absorbed through skin. May cause skin irritation.
 Inhalation : May be harmful if inhaled. May cause respiratory tract irritation.
 Ingestion : May be harmful if swallowed. May cause gastrointestinal irritation.
 Germ cell mutagenicity : Damage to fetus possible.
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 Specific target organ toxicity (single exposure) : Inhalation - May cause respiratory irritation.
 Specific target organ toxicity (repeated exposure) : Not classified
 Aspiration hazard : Not classified

Numerical Measures of Toxicity: Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
1-Methyl-2-pyrrolidone (872-50-4)	No	No	None
1,2-Propanediol (57-55-6)	No	No	None

Repeated Dose Toxicity : Prolonged or repeated exposure can cause: gastrointestinal disturbance, nausea, vomiting, diarrhea, abdominal pain, headache, central nervous system depression. Rats exposed to 1-Methyl-2-pyrrolidone at a concentration of 1 mg/L as an aerosol for 10 days showed depletion of hematopoietic cells in the bone marrow and atrophy of the lymphoid tissues of the thymus, spleen, and lymph nodes. Bone marrow - Irregularities - Based on Human Evidence.

SECTION 12: Ecological information

12.1. Ectotoxicity

1-Methyl-2-pyrrolidone (872-50-4) [2.5%]
 Toxicity to fish LC50 - other fish - 4,000 mg/l - 96 h.
 LC50 - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h
 Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 24 h.
 Toxicity to bacteria LC50 - Bacteria - > 9,000 mg/l

12.2. Persistence and Degradability

Biodegradability Result: 90 % - Readily biodegradable.

12.3. Bioaccumulative Potential : No additional information available

12.4. Mobility in Soil : No additional information available.

12.5. Other adverse effects : No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State / Provincial and Local laws and regulations. Regulations may vary in different locations. Contact a licensed professional waste disposal service to dispose of this material. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. VICTAULIC HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 3.

SECTION 14: Transport information

In accordance with ICAO/IATA/DOT/TDG

14.1. UN number

Not regulated for transport.

14.2. UN proper shipping name

Not regulated for transport.

14.3. Additional information

Overland transport

Not regulated for transport.

Transport by sea

Not regulated for transport.

Air transport

Not regulated for transport.

SECTION 15: Regulatory information

Component (CAS#) [%] - CODES

1-Methyl-2-pyrrolidone (872-50-4) [2.5%] MASS, NJHS, PA, SARA313, TSCA

2-Propanediol (57-55-6) [2.0%] HAP, PA, TSCA

Regulatory CODE Descriptions

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

PA = PA Right-To-Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic Chemicals

TSCA = Toxic Substances Control Act

HAP = Hazardous Air Pollutants California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

US Toxic Substances Control Act:

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

European Inventory of Existing Commercial Chemical Substances (EINECS):

This product is a polymer according to the definition in Directive 92/32/EEC (7th Amendment to Directive 67/548/EEC) and all of its starting materials and intentional additives are listed the European Inventory of Existing Commercial Chemical Substances (EINECS) or in compliance with European (EU) chemical inventory requirements.

CEPA - Domestic Substances List (DSL):

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

SECTION 16: Other information

05.03 Rev E 05/13/17; replaces Rev D, 3/2011

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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.

Installation

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Trademarks

Victaulic and Zero-Flex are registered trademarks of Victaulic Company.
