
Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name: CAV-PRIME TPO Primer

Product Use: Adhesive

Manufacturer Information

Versico LLC
1285 Ritner Highway
Carlisle, PA 17013
USA
Phone: +1-800-992-7663
Emergency Phone #: +1-800-424-9300 (CHEMTREC)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A
Skin Sensitization – Category 1A
Carcinogenicity – Category 2
Specific Target Organ Toxicity – Single Exposure: Category 3
Flammable Aerosol: Category 2

GHS Label Elements

Symbol(s)



Signal Word

WARNING!

Hazard Statement(s)

Causes skin irritation.
Causes serious eye irritation.
May cause allergic skin reaction.
Suspected of causing cancer.
May cause drowsiness or dizziness.
Flammable aerosol. Pressurized container: may burst if heated.

Precautionary Statement(s)

Prevention –
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Keep away from heat, hot surfaces, sparks, open flames and other ignitions sources.
No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Take precautionary measures against static discharge.
Do not spray on open flame or other ignition source.
Do not pierce or burn, even after use.
Use only non-sparking tools
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace

Response –

In case of fire: Use appropriate media to extinguish.
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Call a POISON CENTER or doctor if you feel unwell.

Storage and Disposal –

Dispose of contents/container in accordance with local/regional/national/international regulations.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure: Inhalation, skin absorption, eye contact

Acute Effects

EYES: Contact with eyes may cause irritation. Direct contact with liquid or vapors may cause stinging, tearing, redness, swelling, and eye damage.

SKIN: May cause skin irritation and/or dermatitis. Prolonged or repeated contact or exposure to vapors may cause redness, burning, and drying and cracking of the skin.

INHALATION: Breathing high concentrations of vapors may cause irritation of the nose and throat or signs of nervous system depression (e.g., – headache, nausea, drowsiness, dizziness, vomiting, loss of coordination and fatigue).

INGESTION: Ingestion may cause irritation of the digestive tract, nausea, vomiting, and signs of nervous system depression.

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Chronic Effects

Avoid repeated exposure. May cause blood damage. Repeated contact may cause allergic reactions in very susceptible persons.

Aggravated Medical Conditions

Pre-existing eye, skin, or respiratory disorders may be aggravated by exposure to this product.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
108-88-3	Toluene	40 – 70
64742-89-8	Solvent naphtha, petroleum, light aliphatic	10 – 30
7727-37-9	Nitrogen	1 – 7
Trade secret	Chlorinated polypropylene	0.5 – 1.5
Trade secret	Heat reactive phenolic resin	0.1 – 1
Trade secret	Isophoronediamine-isobutyraldimine	0.1 – 1
Trade secret	Isophorone diisocyanate	0.1 – 1

Any remaining ingredients (to comprise 100% of the product) should be considered a proprietary blend of non-hazardous substances, or materials below threshold reporting limits.

Section 4 - FIRST AID MEASURES

GENERAL ADVICE: Show this safety Data sheet to the doctor in attendance.

EYES: Flush with plenty of cool water for at least 15 minutes, holding eyelids apart for thorough irrigation. If irritation persists, get immediate medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash affected areas thoroughly with mild soap. If skin irritation persists, get immediate medical attention.

INHALATION: Move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen and get immediate medical attention. Call a POISON CENTER or doctor if you feel unwell.

INGESTION: Do not induce vomiting – seek immediate medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration.

NOTES TO PHYSICIAN: Treat symptomatically.

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Carbon dioxide, dry chemicals, foam. Water may be helpful in keeping adjacent containers cool; avoid spreading the liquid with water used for cooling. Water-based sprinkler systems may help contain larger fires.

Special Protective Equipment and firefighting procedures

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Hazards arising from the Chemical

Closed containers may rupture if exposed to fire or extreme heat. May produce toxic fumes if burning.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Remove all sources of ignition.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for Clean-up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Other Information

None known.

Section 7 - HANDLING AND STORAGE

Handling

Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Wear appropriate personal protective equipment. Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from extremes of heat or cold. Keep in properly labeled containers.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Toluene	108-88-3
ACGIH	20 ppm TWA
NIOSH	100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL 500 ppm IDLH
Europe	50 ppm TWA; 192 mg/m ³ TWA 100 ppm STEL; 384 mg/m ³ STEL Possibility of significant uptake through the skin
OSHA (US)	200 ppm TWA 300 ppm Ceiling
Mexico	50 ppm TWA LMPE-PPT; 188 mg/m ³ TWA LMPE-PPT Skin – potential for cutaneous absorption

Biological Limit Value

There are no biological limit values for any of this product’s components.

Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate work clothing. Wear protective shoes. Recommended material: protective skin cream. Glove Recommendation: wear appropriate chemical resistant gloves.

Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Hygiene Practices

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using, do not eat, drink or smoke.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber-colored liquid	Upper Flammability/ Explosive Limit	6.7
Oxidizing Properties	No Data Available	Lower Flammability/ Explosive Limit	0.9

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Odor	Characteristic odor.	Vapor Pressure mm Hg	No available
Odor Threshold	No Data Available	Vapor Density	3.4
pH Value	No Data Available	Bulk Density (lb/gal)	7.13
Melting Point / Freezing Point	No Data Available	VOC Content (g/L)	407
Boiling Point	No available	VOC Less Water & Exempts (g/L)	407
Flash Point	40°F (4°C)	Specific Gravity (g/l)	0.856
Explosive Properties	No Data Available	Auto-Ignition Temperature	932°F (500°C)
Evaporation Rate	2.7	Decomposition Temperature	No Data Available
Flammability (solids)	No Data Available	Partition Coefficient	No Data Available
Solubility in Water	Insoluble	Viscosity	No Data Available

Section 10 - STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions. Hazardous polymerization does not occur.

Possibility of Hazardous Reactions

None under normal conditions of use.

Conditions to Avoid

Keep away from open flames, hot surfaces, static electricity and sources of ignition. Avoid extremes of heat or cold.

Materials to Avoid

Incompatible with strong acids and bases, alkali metals, halogens, and strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide, carbon dioxide, smoke, and other unidentified organic compounds may be formed during combustion.

Section 11 - TOXICOLOGICAL INFORMATION

Numerical Measures of Toxicity for Individual Components

Likely Routes of Exposure

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Inhalation – May cause drowsiness or dizziness.
Skin Contact – causes skin irritation.
Eye Contact – causes serious eye irritation.
Ingestion – no information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis –

LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

Oral LD50 Rat >2000 mg/kg

Dermal LD50 Rat >2000 mg/kg

Inhalation Rat >5000 ppm 1 hour

Isophorone diisocyanate (Trade secret)

Oral LD50 Rat >20000 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Inhalation LC50 Rat 5 mg/L 4 h

Toluene (108-88-3)

Oral LD50 Rat 2600 mg/kg

Dermal LD50 Rabbit 12000 mg/kg

Inhalation LC50 Rat 30 - 35 mg/L 4 h

Chlorinated homopolymer (Trade secret)

Oral Rat 5000 mg/kg

Chlorinated polypropylene (Trade secret)

Oral Rat 5000 mg/kg

Heat reactive phenolic resin (Trade secret)

Oral LD50 Rat 2160 mg/kg

Dermal Rabbit 1880 mg/kg

Isophorondiamine-isobutyraldimine (Trade secret)

Oral Rat 4150 mg/kg [OECD Test Guideline 401]

Dermal Rat >5000 mg/kg [OECD Test Guideline 402]

Immediate Effects

Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to central nervous system.

Delayed Effects

Prolonged exposure may cause liver, kidney and central nervous system damage.

Irritation/Corrosivity Data

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Respiratory Sensitization

No data available

Dermal Sensitization

No data available

Component Carcinogenicity

Tolulene (108-88-3)

ACGIH:A4 - Not Classifiable as a Human Carcinogen

IARC:Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

Causes damage to central nervous system.

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

Aspiration Hazard

No information available for the product.

Medical Conditions Aggravated by Exposure

Aspiration into the lungs may cause chemical pneumonitis.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

Algae:EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID

Isophorone diisocyanate (Trade secret)

Fish:LC50 96 h Oncorhynchus mykiss 9.22 mg/L

Invertebrate:EC50 48 h Daphnia magna 6.14 mg/L IUCLID

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Toluene (108-88-3)

Fish:LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old);

LC50 96 h Pimephales promelas 12.6 mg/L [static];

LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through];

LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static];

LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static];

LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static];

LC50 96 h Oryzias latipes 54 mg/L [static];

LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static];

LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]

Algae:EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID;

EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA

Invertebrate:EC50 48 h Daphnia magna 5.46 - 9.83 mg/l [static] EPA;

EC50 48 h Daphnia magna 11.5 mg/L IUCLID

Heat reactive phenolic resin (Trade secret)

Fish:LC50 96 h Pimephales promelas 0.25 mg/L [flow-through]

Algae:EC50 72 h Desmodesmus subspicatus 1.1 mg/L IUCLID;

EC 50 96 h Pseudokirchneriella subcapitata 1.9 mg/L IUCLID

Invertebrate:EC50 48 h Daphnia magna 0.07 - 0.12 mg/L [static] EPA

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

No other information available.

Section 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Dispose of in accordance with all applicable local, state, and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001

Section 14 - TRANSPORT INFORMATION



Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

The shipping classification in this section is meant as a guide to overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under 49 CFR, IATA and IMDG to assure regulatory compliance.

US DOT Information:

Shipping Name: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

Technical Name: (TOLUENE, NITROGEN)

Hazard Class: 2.1

UN/NA #: UN3501

ICAO / IATA: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

Technical Name: (TOLUENE, NITROGEN)

Hazard Class: 2.1

UN/NA #: UN3501

IMDG / IMO: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

Technical Name: (TOLUENE, NITROGEN)

Hazard Class: 2.1

UN/NA #: UN3501

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Toluene (108-88-3)

SARA 313:1% de minimus concentration

CERCLA:1000 lb final RQ; 454 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes; Chronic Health: Yes; Fire: Yes; Pressure: Yes; Reactivity: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

COMPONENT	CAS	CA	MA	MN	NJ	PA
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Toluene (108-88-3)
Repro/Dev.Toxdevelopmental toxicity, initial date 1/1/91
female reproductive toxicity, initial date 8/7/09

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits on the IDL.

Toluene (108-88-3) -- 1%

Component Analysis - Inventory
Solvent naphtha, petroleum, light aliphatic (64742-89-8)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR- KECI/KECL	KR- TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Isophorone diisocyanate (Trade secret)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR- KECI/KECL	KR- TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Toluene (108-88-3)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR- KECI/KECL	KR- TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Chlorinated polypropylene (Trade secret)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR- KECI/KECL	KR- TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Heat reactive phenolic resin (Trade secret)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR- KECI/KECL	KR- TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Isophoronediamine-isobutyraldimine (Trade secret)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR- KECI/KECL	KR- TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	No	No	Yes	Yes	No

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 2 Fire: 3 Reactivity: 0 Personal Protection B

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard



Safety Data Sheet

Material Name: CAV-PRIME TPO Primer

Product #: 341448

Summary of Changes

Revision Date: November 16, 2020

Revision Note: New

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.