

**Tedlar® 68070 Flexible Product Adhesive**

Version 2.1

Issue Date : 06/16/2023 Ref. 130000000845
Revision Date : 08/13/2019

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Tedlar® 68070 Flexible Product Adhesive
Product Use : Adhesives

Restrictions on use : Do not use in medical applications involving permanent implantation in the human body.

Manufacturer/Supplier : DuPont
974 Centre Road
Wilmington, DE 19805, USA

Product Information : +1-833-338-7668 (outside the U.S. +1-302-996-8439)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : +1-800-424-9300 (outside the U.S. & Canada +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Flammable liquids	Category 2
Skin irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2
Specific target organ toxicity - single exposure	Category 3
Specific target organ toxicity - repeated exposure	Category 2
Aspiration hazard	Category 1

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Label content

Pictogram :



Signal word : Danger

Hazardous warnings : Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
(Central nervous system)

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Hazardous prevention measures : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/ attention.
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 30 - 40 %

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Toluene	108-88-3	44 - 46 %
Propan-2-ol	67-63-0	10 - 20 %
Acrylic Polymer		30 - 40 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : No applicable data available.

Inhalation : Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash clothing before reuse.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.

Ingestion : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms/effects, acute and delayed : No applicable data available.

Protection of first-aiders : No applicable data available.

Notes to physician : No applicable data available.

SECTION 5. FIREFIGHTING MEASURES



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- Suitable extinguishing media : Dry chemical, Carbon dioxide (CO2), Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Specific hazards : Fire will produce dense black smoke containing hazardous combustion products (see section 10).
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Cool containers/tanks with water spray. Evacuate personnel and keep upwind of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Wear personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas. Do not let product enter drains.
- Spill Cleanup : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
- Accidental Release Measures : No applicable data available.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Provide sufficient air exchange and/or exhaust in work rooms. Avoid breathing vapours or mist. Avoid contact with skin, eyes and clothing. Keep away from flames and sparks. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.



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Do not breathe vapours or spray mist. Wash hands before breaks and immediately after handling the product.

Handling (Physical Aspects) : When transferring from one container to another apply earthing measures and use conductive hose material. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors.

Dust explosion class : No applicable data available.
 Storage : Grounding and elimination of the static charge is recommended. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
 Respiratory protection : In the case of vapour formation use a respirator with an approved filter. Respirator with combination filter for vapour/particulate (EN 141)

Hand protection : Material: butyl-rubber
 Glove thickness: > 0.4 mm
 Wearing time: 8 h
 Additional protection: Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Safety glasses Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.


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Skin and body protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

 Exposure Guidelines
 Exposure Limit Values

Toluene			
TLV	(ACGIH)	20 ppm	TWA
REL	(NIOSH)	100 ppm 375 mg/m ³	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
REL	(NIOSH)	150 ppm 560 mg/m ³	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
PEL (Permissible Exposure Limit)	(OSHA)	200 ppm	TWA
PEL (Permissible Exposure Limit)	(OSHA)	300 ppm	CEIL
PEL (Permissible Exposure Limit)	(OSHA)	500 ppm	Peak
PEL (Permissible Exposure Limit)	(OSHA)	100 ppm 375 mg/m ³	TWA
PEL (Permissible Exposure Limit)	(OSHA)	150 ppm 560 mg/m ³	STEL
AEL *	(DuPont)	20 ppm	8 & 12 hr. TWA

Propan-2-ol			
TLV	(ACGIH)	200 ppm	TWA
TLV	(ACGIH)	400 ppm	STEL
REL	(NIOSH)	400 ppm 980 mg/m ³	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
REL	(NIOSH)	500 ppm 1,225 mg/m ³	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
PEL (Permissible Exposure Limit)	(OSHA)	400 ppm 980 mg/m ³	8 hr. TWA
PEL (Permissible Exposure Limit)	(OSHA)	400 ppm 980 mg/m ³	TWA
PEL (Permissible Exposure Limit)	(OSHA)	500 ppm 1,225 mg/m ³	STEL
AEL *	(DuPont)	200 ppm	8 & 12 hr. TWA


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Acrylic Polymer

No applicable data available.

Biological Exposure Indices

Toluene			
BEI	(ACGIH)	0.02 mg/l	Toluene/In blood Prior to last shift of workweek
BEI	(ACGIH)	0.03 mg/l	Toluene/Urine End of shift (As soon as possible after exposure ceases)
BEI	(ACGIH)	0.3	o-Cresol/Urine End of shift (As soon as possible after exposure ceases)

Propan-2-ol			
BEI	(ACGIH)	40 mg/l	Acetone/Urine End of shift at end of workweek

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid
 Form : liquid
 Color : clear

Odor : aromatic

Odor threshold : No applicable data available.

pH : Not applicable

Melting point/range : No applicable data available.

Boiling point/boiling range : Boiling point/boiling range
 82 - 111 °C (180 - 232 °F)

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Flash point : 5 °C
Method: closed cup

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : 12.7 vol%

Lower explosion limit : 1 vol%

Vapor pressure : ca. 22.5 hPa

Vapour density : No applicable data available.

Density : 0.89 - 0.93 g/cm³

Specific gravity (Relative density) : No applicable data available.

Water solubility : immiscible

Solubility(ies) : No applicable data available.

Partition coefficient: n-octanol/water : No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

% Volatile : 65 - 70 %

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.
Chemical stability : No decomposition if stored and applied as directed.



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Possibility of hazardous reactions : polymerisation
 Polymerization will not occur. Vapours may form explosive mixture with air.
 Conditions to avoid : Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Hazardous thermal decomposition products:: Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Smoke

SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation : Effects of breathing high concentrations of vapour may include:
 Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system.
 Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

Toluene

Dermal LD50 : > 5,000 mg/kg , Rabbit

Oral LD50 : 5,580 mg/kg , Rat

Skin irritation : Severe skin irritation, Rat

Eye irritation : Irritation to eyes, reversing within 7 days, Rabbit

Skin sensitization : Does not cause skin sensitisation., Guinea pig
 Does not cause respiratory sensitisation., Not tested on animals

Repeated dose toxicity : Inhalation
 Rat
 - 28 d
 vapour
 LOAEL: 0.3 mg/l
 Target Organs: Central nervous system
 Central nervous system effects



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- Carcinogenicity : Animal testing did not show any carcinogenic effects.
- Mutagenicity : Animal testing did not show any mutagenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.
 Animal testing showed effects on reproduction at levels below those causing parental toxicity that included:
 Reduced sperm count
- Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Propan-2-ol

- Dermal LD50 : 12,870 mg/kg , Rabbit
- Oral LD50 : 5,840 mg/kg , Rat
- Skin irritation : No skin irritation, Rabbit
- Eye irritation : Irritation to eyes, reversing after 7 to 21 days, Rabbit
- Skin sensitization : Does not cause skin sensitisation., Guinea pig
 Does not cause respiratory sensitisation., Mouse
- Repeated dose toxicity : Inhalation
 multiple species
 -
 No toxicologically significant effects were found.
- Carcinogenicity : Not classifiable as a human carcinogen.
 Overall weight of evidence indicates that the substance is not carcinogenic.
- Mutagenicity : Animal testing did not show any mutagenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity : No toxicity to reproduction
 Animal testing showed effects on reproduction at levels equal to or


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above those causing parental toxicity.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity
Toluene

96 h LC50 : Fish (unspecified species) 5.5 mg/l
 72 h EC50 : Algae 207 mg/l
 48 h EC50 : Ceriodaphnia dubia (water flea) 3.78 mg/l
 40 d : NOEC Fish (unspecified species) 1.39 mg/l
 7 d : NOEC Ceriodaphnia dubia (water flea) 0.74 mg/l

Propan-2-ol

96 h LC50 : Pimephales promelas (fathead minnow) 9,640 mg/l OECD Test Guideline 203
 72 h ErC50 : Scenedesmus quadricauda (Green algae) > 1,000 mg/l
 24 h EC50 : Daphnia (water flea) > 10,000 mg/l OECD Test Guideline 202
 48 h EC50 : Crangon crangon (shrimp) 1,400 mg/l
 21 d : NOEC Daphnia magna (Water flea) 30 mg/l



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Environmental Fate

Toluene

Bioaccumulation : Bioaccumulation is unlikely.

Propan-2-ol

Bioaccumulation : Bioaccumulation is unlikely.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

DOT	UN number	: 1133
	Proper shipping name	: Adhesives
	Class	: 3
	Packing group	: II
IATA_C	Labelling No.	: 3
	UN number	: 1133
	Proper shipping name	: Adhesives
	Class	: 3
IMDG	Packing group	: II
	Labelling No.	: 3
	UN number	: 1133
	Proper shipping name	: ADHESIVES
	Class	: 3
	Packing group	: II
	Labelling No.	: 3

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SECTION 15. REGULATORY INFORMATION

- TSCA : On the inventory, or in compliance with the inventory
- SARA 311/312 Hazard classification : Flammable (gases, aerosols, liquids, or solids)
Skin corrosion or irritation
Serious eye damage or eye irritation
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard
- SARA 313 Regulated Chemical(s) : The following components are subject to reporting levels established by SARA Title III, Section 313: Toluene, Propan-2-ol
- California Prop. 65 : This product can expose you to Benzene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

- Restrictions for use : Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the



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date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.