



# Durathane FPX Base FS#36081 MIL-PRF- 85285 Type I & IV CL H Polyurethane Topcoat Two-Component Touch-up Paint Pen

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 07/08/2020  
07/08/2020 Version: 1.0

Revision date:

### SECTION 1: Identification

**1.1. Identification** : Mixture  
Product form : NSN - 8010015831736 (**Part B**)  
Product name : Finished Good (packaged with part A)  
Product code : 9740-LINE

**1.2. Recommended use and restrictions on use**  
Recommended use : Product for industrial use only  
Restrictions on use : Not applicable

#### 1.3. Supplier

**Manufacturer**  
Tempo Aerospace Inc.  
205 Fenmar Drive  
Toronto, ON M9L 2X4 - Canada  
F 416.746.2235  
[www.tempo-aerospace.com](http://www.tempo-aerospace.com)

**Filled by**  
Delaware Paint Company  
8455 Rausch Drive  
Plain City, Ohio USA 43064  
740-368-9981

**1.4. Emergency telephone number**  
Emergency number : Tempo Aerospace Inc. (416)746-2233; CANUTEC: +01 (613) 996-6666

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

H226	Flammable liquids, Category 3	Flammable liquid and vapour.
H330	Acute toxicity (inhalation:dust,mist) Category 2	Fatal if inhaled.
H334	Respiratory sensitisation, Category 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	Skin sensitisation, Category 1	May cause an allergic skin reaction.

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H226 - Flammable liquid and vapour.  
H317 - May cause an allergic skin reaction.  
H330 - Fatal if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - [In case of inadequate ventilation] wear respiratory protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
 P310 - Immediately call a poison center or doctor.  
 P320 - Specific treatment is urgent (see supplemental first aid instruction on this label).  
 P321 - Specific treatment (see supplemental first aid instruction on this label).  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.  
 P363 - Wash contaminated clothing before reuse.  
 P370+P378 - In case of fire: Use media other than water to extinguish.  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 - Store in a well-ventilated place. Keep cool.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Hexane, 1,6-diisocyanato-, homopolymer	(CAS-No.) 28182-81-2	≥ 75	Acute Tox. 2 (Inhalation:dust,mist), H330
tert-butyl acetate	(CAS-No.) 540-88-5	8 – 15	Flam. Liq. 2, H225
n-butyl acetate	(CAS-No.) 123-86-4	8 – 15	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT SE 3, H336
1,6-diisocyanatohexane	(CAS-No.) 822-06-0	< 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.  
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.  
 First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.  
 First-aid measures after eye contact : Rinse eyes with water as a precaution.  
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Symptoms/effects after skin contact : May cause an allergic skin reaction.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

n-butyl acetate (123-86-4)		
ACGIH	Local name	n-Butyl acetate
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Eye & URT irr
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	150 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

### Hexane, 1,6-diisocyanato-, homopolymer (28182-81-2)

Not applicable

1,6-diisocyanatohexane (822-06-0)		
ACGIH	Local name	Hexamethylene diisocyanate
ACGIH	ACGIH TWA (ppm)	0.005 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr; resp sens. Notations: BEI
ACGIH	Regulatory reference	ACGIH 2019
tert-butyl acetate (540-88-5)		
ACGIH	Local name	tert-Butyl acetate
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Eye & URT irr
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m³)	950 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
 Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
 Colour : Clear  
 Odour : acetate  
 Odour threshold : No data available  
 pH : No data available  
 Melting point : Not applicable  
 Freezing point : No data available  
 Boiling point : > 35 °C  
 Flash point : ≈ 57 °C (Closed cup)

Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.0864 g/cm <sup>3</sup>
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Fatal if inhaled.

<b>n-butyl acetate (123-86-4)</b>	
LD50 oral rat	10760 – 12789 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	14112 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	1.36 mg/l/4h
LC50 inhalation rat (ppm)	2000 ppm/4h
<b>Hexane, 1,6-diisocyanato-, homopolymer (28182-81-2)</b>	
LD50 oral rat	> 5000 mg/kg OECD 401
LD50 dermal rat	> 5 ml/kg
LD50 dermal rabbit	> 2000 mg/kg EPA 40 CFR 798
LC50 inhalation rat (mg/l)	0.39 mg/l/4h OECD 403, rat-female.
<b>1,6-diisocyanatohexane (822-06-0)</b>	
LD50 oral rat	746 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))

<b>1,6-diisocyanatohexane (822-06-0)</b>	
LD50 dermal rat	> 7000 mg/kg OECD 402
LC50 inhalation rat (mg/l)	0.124 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 28 day(s))
LC50 inhalation rat (ppm)	20 ppm/4h

<b>tert-butyl acetate (540-88-5)</b>	
LD50 oral rat	4500 mg/kg bodyweight (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral, 014 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (ppm)	4211 ppm (6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

<b>n-butyl acetate (123-86-4)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

<b>1,6-diisocyanatohexane (822-06-0)</b>	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified  
 Viscosity, kinematic : No data available

Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Symptoms/effects after skin contact : May cause an allergic skin reaction.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

<b>n-butyl acetate (123-86-4)</b>	
LC50 fish 1	18 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	44 mg/l (48 h, Daphnia sp., Static system, Fresh water, Experimental value)

<b>tert-butyl acetate (540-88-5)</b>	
LC50 fish 1	240 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	350 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	16 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

### 12.2. Persistence and degradability

<b>n-butyl acetate (123-86-4)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.21 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.46

<b>1,6-diisocyanatohexane (822-06-0)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>tert-butyl acetate (540-88-5)</b>	
Persistence and degradability	Not readily biodegradable in water.

### 12.3. Bioaccumulative potential

<b>n-butyl acetate (123-86-4)</b>	
BCF fish 1	15.3 (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

<b>1,6-diisocyanatohexane (822-06-0)</b>	
BCF fish 1	59.6 (BCFWIN, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.2 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

<b>tert-butyl acetate (540-88-5)</b>	
BCF fish 1	6.734 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.64 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 21.7 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

<b>n-butyl acetate (123-86-4)</b>	
Surface tension	0.0163 N/m (20 °C)
Partition coefficient n-octanol/water (Log Koc)	1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Low potential for adsorption in soil.

<b>1,6-diisocyanatohexane (822-06-0)</b>	
Partition coefficient n-octanol/water (Log Koc)	2.78 – 3.68 (log Koc, Calculated value)
Ecology - soil	Low potential for mobility in soil.

<b>tert-butyl acetate (540-88-5)</b>	
Surface tension	64 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Partition coefficient n-octanol/water (Log Koc)	1.084 – 1.833 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
 Additional information : Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1263 Paint related material, 3, III  
 UN-No.(DOT) : UN1263  
 Proper Shipping Name (DOT) : Paint related material  
 Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
 Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 3 - Flammable liquid



Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

### Transportation of Dangerous Goods

Transport document description : UN1263 PAINT RELATED MATERIAL, 3, III

UN-No. (TDG) : UN1263

Proper Shipping Name (Transportation of Dangerous Goods) : PAINT RELATED MATERIAL

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Packing group : III - Minor Danger

Explosive Limit and Limited Quantity Index : 5 L

Passenger Carrying Road Vehicle or Passenger : 60 L

Carrying Railway Vehicle Index

### Transport by sea

Transport document description (IMDG) : UN 1263 PAINT RELATED MATERIAL, 3, III

UN-No. (IMDG) : 1263

Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

### Air transport

Transport document description (IATA) : UN 1263 Paint related material, 3, III

UN-No. (IATA) : 1263

Proper Shipping Name (IATA) : Paint related material

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### n-butyl acetate (123-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	5000 lb
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#### Hexane, 1,6-diisocyanato-, homopolymer (28182-81-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
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#### 1,6-diisocyanatohexane (822-06-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	100 lb
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#### tert-butyl acetate (540-88-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	5000 lb
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### 15.2. International regulations

#### CANADA

**n-butyl acetate (123-86-4)**

Listed on the Canadian DSL (Domestic Substances List)

**Hexane, 1,6-diisocyanato-, homopolymer (28182-81-2)**

Listed on the Canadian DSL (Domestic Substances List)

**1,6-diisocyanatohexane (822-06-0)**

Listed on the Canadian DSL (Domestic Substances List)

**tert-butyl acetate (540-88-5)**

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 07/08/2020

Full text of H-statements:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Tempo SDS GHS US

*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.*