





# Safety Data Sheet

According to the Hazardous Products Regulation (February 11, 2015)

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

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

### 5.2. Unsuitable extinguishing media

No additional information available

### 5.3. Specific hazards arising from the hazardous product

Fire hazard : Flammable liquid and vapour.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

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

Firefighting instructions : Evacuate area. Fight fire from safe distance and protected location. Approach fire from upwind to avoid hazardous vapours or gases.

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

General measures : No open flames. No smoking.

Personal Precautions, Protective Equipment and Emergency Procedures : Evacuate area. Do not touch or walk on the spilled product. Eliminate ignition sources. Avoid breathing (dust, vapor, mist, gas). Provide adequate ventilation. Wear personal protective equipment.

### 6.2. Methods and materials 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.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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

### 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

tert-butyl acetate (540-88-5)		
USA - ACGIH	ACGIH TWA (ppm)	50 ppm
USA - ACGIH	ACGIH STEL (ppm)	150 ppm
USA - ACGIH	Remark (ACGIH)	TLV® Basis: Eye & URT irr
USA - ACGIH	Regulatory reference	ACGIH 2019
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA - OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

# 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 the Hazardous Products Regulation (February 11, 2015)

<b>n-butyl acetate (123-86-4)</b>		
USA - ACGIH	ACGIH TWA (ppm)	50 ppm
USA - ACGIH	ACGIH STEL (ppm)	150 ppm
USA - ACGIH	Remark (ACGIH)	TLV® Basis: Eye & URT irr
USA - ACGIH	Regulatory reference	ACGIH 2019
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	150 ppm
USA - OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>1,6-diisocyanatohexane (822-06-0)</b>		
USA - ACGIH	ACGIH TWA (ppm)	0.005 ppm
USA - ACGIH	Remark (ACGIH)	TLV® Basis: URT irr; resp sens. Notations: BEI
USA - ACGIH	Regulatory reference	ACGIH 2019

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Keep concentrations well below lower explosion limits. Ensure exposure is below occupational exposure limits (where available). Use explosion-proof equipment.

Environmental exposure controls : Avoid release to the environment.

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

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses with side shields

#### Skin and body protection:

Wear suitable protective clothing. Avoid contact with skin

#### 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
Appearance	: No data available
Colour	: Clear
Odour	: acetate
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 35 °C
Flash point	: ≈ 57 °C (Closed cup)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available

# 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 the Hazardous Products Regulation (February 11, 2015)

Relative density	: No data available
Density	: 1.0864 g/cm <sup>3</sup>
Solubility	: No data available
Log Pow	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	: Flammable liquid and vapour.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
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>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))

<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))
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

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: 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 : May cause drowsiness or dizziness.

# 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 the Hazardous Products Regulation (February 11, 2015)

<b>tert-butyl acetate (540-88-5)</b>	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
<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
Symptoms/effects	: May cause drowsiness or dizziness.
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.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

<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)
BCF fish 1	6.734 l/kg (BCFBFAF v3.01, Estimated value, Fresh weight)
Log Pow	1.64 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 21.7 °C)
Log Koc	1.084 - 1.833 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

<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)
EC50 72h algae (1)	674.7 mg/l (Desmodesmus subspicatus, Static system, Fresh water, Experimental value)
BCF fish 1	15.3 (Calculated value)
Log Pow	2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Log Koc	1.268 - 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)

<b>1,6-diisocyanatohexane (822-06-0)</b>	
EC50 72h algae (1)	> 77.4 mg/l (EU Method C.3, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)
BCF fish 1	59.6 (BCFWIN, Pisces, QSAR)
Log Pow	3.2 (Calculated)
Log Koc	2.78 - 3.68 (log Koc, Calculated value)

### 12.2. Persistence and degradability

<b>tert-butyl acetate (540-88-5)</b>	
Persistence and degradability	Not readily biodegradable in water.
<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.

# 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 the Hazardous Products Regulation (February 11, 2015)

### 12.3. Bioaccumulative potential

<b>tert-butyl acetate (540-88-5)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BCF fish 1	6.734 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Log Pow	1.64 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 21.7 °C)
Log Koc	1.084 - 1.833 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

<b>n-butyl acetate (123-86-4)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF fish 1	15.3 (Calculated value)
Log Pow	2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Log Koc	1.268 - 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)

<b>1,6-diisocyanatohexane (822-06-0)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF fish 1	59.6 (BCFWIN, Pisces, QSAR)
Log Pow	3.2 (Calculated)
Log Koc	2.78 - 3.68 (log Koc, Calculated value)

### 12.4. 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)
Ecology - soil	Highly mobile in soil.
Log Koc	1.084 - 1.833 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Log Pow	1.64 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 21.7 °C)

<b>n-butyl acetate (123-86-4)</b>	
Surface tension	0.0163 N/m (20 °C)
Ecology - soil	Low potential for adsorption in soil.
Log Koc	1.268 - 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Log Pow	2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)

<b>1,6-diisocyanatohexane (822-06-0)</b>	
Ecology - soil	Low potential for mobility in soil.
Log Koc	2.78 - 3.68 (log Koc, Calculated value)
Log Pow	3.2 (Calculated)

### 12.5. Other adverse effects

Ozone : Not classified

## 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

### 14.1. Basic shipping description

In accordance with TDG

#### Transportation of Dangerous Goods

UN-No. (TDG) : UN1263  
Packing group : III - Minor Danger  
TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids  
Transport document description : UN1263 PAINT RELATED MATERIAL, 3, III  
Proper Shipping Name (Transportation of Dangerous Goods) : PAINT RELATED MATERIAL

# 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 the Hazardous Products Regulation (February 11, 2015)

Hazard labels (TDG) : 3 - Flammable liquids



Explosive Limit and Limited Quantity Index : 5 L  
Excepted quantities (TDG) : E1  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 60 L

### 14.2. Transport information/DOT

#### Department of Transport

DOT NA No : UN1263  
UN-No.(DOT) : 1263  
Packing group (DOT) : III - Minor Danger  
Transport document description : UN1263 Paint related material, 3, III  
Proper Shipping Name (DOT) : Paint related material  
Contains Statement Field Selection (DOT) :  
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
Division (DOT) : 3  
Hazard labels (DOT) : 3 - Flammable liquid



Marine pollutant : NO  
Emergency Response Guide (ERG) Number : 128  
Other information : No supplementary information available.

### 14.3. Air and sea transport

#### IMDG

UN-No. (IMDG) : 1263  
Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL  
Transport document description (IMDG) : UN 1263 PAINT RELATED MATERIAL, 3, III  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : III - substances presenting low danger

#### IATA

UN-No. (IATA) : 1263  
Proper Shipping Name (IATA) : Paint  
Transport document description (IATA) : UN 1263 Paint, 3, III  
Class (IATA) : 3 - Flammable Liquids  
Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. National regulations

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

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags : Substance was manufactured or imported after July 1, 1994

#### 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)



# 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 the Hazardous Products Regulation (February 11, 2015)

## 15.2. International regulations

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

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

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

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

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

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

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

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

## SECTION 16: Other information

Date of issue : 2019/09/11

Revision date : 2019/09/11

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 Canada

*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.*