



## 1 Identification

- **Product identifier**
- **Trade name:** Flo-Thane Aliphatic Urethane Part A
- **Product code:** 5140 Part A
- **Recommended use and restriction on use**
- **Recommended use:** Concrete paint/ concrete coating
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Florida Paint  
78 Third Street  
Winter Garden, FL 34787  
USA  
(407) 986-1000
- **Emergency telephone number:**  
ChemTel Inc.  
(800) 255-3924 (North America)  
(801) 1 (813)248-0585 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Liq. 2 H225 Highly flammable liquid and vapor.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
STOT SE 3 H336 May cause drowsiness or dizziness.

### · Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### · Hazard pictograms:



GHS02 GHS07 GHS08

#### · Signal word: Danger

#### · Hazard statements:

H225 Highly flammable liquid and vapor.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.

#### · Precautionary statements:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.

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- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing mist, vapors, or 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.
- 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a poison center/doctor if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

**3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

· **Components:**

13463-67-7	titanium dioxide	20-35%
123-86-4	n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	10-25%
108-65-6	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	10-15%
1344-28-1	aluminum oxide	<5%
108-88-3	toluene ⚠ Flam. Liq. 2, H225 ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	<1%
7631-86-9	silicon dioxide	<1%
1314-23-4	zirconium dioxide	<1%
97-88-1	n-butyl methacrylate ⚠ Flam. Liq. 3, H226 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	<1%
818-61-1	2-hydroxyethyl acrylate ⚠ Acute Tox. 3, H311 ⚠ Skin Corr. 1B, H314 ⚠ Skin Sens. 1, H317	<0.25%

· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
For the wording of the listed Hazard Statements, refer to section 16.

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Non-classification as a carcinogen is based on non-inhalable form of product. IARC listings for titanium dioxide note that the substance must be respirable.

#### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Respiration of particulates is unlikely during normal usage.  
Supply fresh air; consult doctor in case of complaints.  
Provide oxygen treatment if affected person has difficulty breathing.

· **After skin contact:**

Immediately remove any clothing soiled by the product.  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation or rash occurs: Get medical advice/attention.

· **After eye contact:**

Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Do not induce vomiting; immediately call for medical help.  
A person vomiting while lying on their back should be turned onto their side.

· **Most important symptoms and effects, both acute and delayed:**

Headache  
Coughing  
Allergic reactions  
Dizziness

· **Danger:** Suspected of damaging fertility or the unborn child.

· **Indication of any immediate medical attention and special treatment needed:**

Contains n-butyl methacrylate, 2-hydroxyethyl acrylate. May produce an allergic reaction.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.

#### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Water fog / haze  
Foam  
Carbon dioxide  
Gaseous extinguishing agents  
Fire-extinguishing powder

· **For safety reasons unsuitable extinguishing agents:** Water stream.

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

· **Additional information:** Eliminate all ignition sources if safe to do so.

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## 6 Accidental release measures

### · **Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

### · **Environmental precautions** Avoid release to the environment.

### · **Methods and material for containment and cleaning up**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Send for recovery or disposal in suitable receptacles.

### · **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### · **Handling**

#### · **Precautions for safe handling:**

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Open and handle receptacle with care.

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

#### · **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

Flammable liquid and vapor.

#### · **Conditions for safe storage, including any incompatibilities**

#### · **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

Store in cool, dry conditions in well sealed receptacles.

#### · **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

#### · **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

### · **Control parameters**

### · **Components with limit values that require monitoring at the workplace:**

(Cont'd. on page 5)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART A**

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**13463-67-7 titanium dioxide**

PEL (USA)	Long-term value: 15* mg/m <sup>3</sup> *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup> withdrawn from NIC
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust; **respirable fraction; IARC 2B
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
LMPE (Mexico)	Long-term value: 10 mg/m <sup>3</sup> A4

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

PEL (USA)	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
REL (USA)	Long-term value: 950 mg/m <sup>3</sup> , 200 ppm
TLV (USA)	Short-term value: 712 mg/m <sup>3</sup> , 150 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm
EL (Canada)	Long-term value: 20 ppm
EV (Canada)	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
LMPE (Mexico)	Short-term value: 200 ppm Long-term value: 150 ppm

**108-65-6 2-methoxy-1-methylethyl acetate**

WEEL (USA)	Long-term value: 50 ppm
EL (Canada)	Short-term value: 75 ppm Long-term value: 50 ppm
EV (Canada)	Long-term value: 270 mg/m <sup>3</sup> , 50 ppm

**1344-28-1 aluminum oxide**

PEL (USA)	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m <sup>3</sup> respirable, as Al
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
LMPE (Mexico)	Long-term value: 1* mg/m <sup>3</sup> A4, *fracción respirable

**108-88-3 toluene**

PEL (USA)	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
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**Trade name: FLO-THANE ALIPHATIC URETHANE - PART A**

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REL (USA)	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm R
EV (Canada)	Long-term value: 20 ppm
LMPE (Mexico)	Long-term value: 20 ppm A4, IBE

**7631-86-9 silicon dioxide**

NIOSH REL (USA)	Long-term value: 6 mg/m <sup>3</sup>
OSHA PEL (USA)	Long-term value: 80 mg/m <sup>3</sup>

**1314-23-4 zirconium dioxide**

PEL (USA)	Long-term value: 5 mg/m <sup>3</sup> as Zr
REL (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
TLV (USA)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
EL (Canada)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
LMPE (Mexico)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> A4; como Zr

**97-88-1 n-butyl methacrylate**

EL (Canada)	Long-term value: 50 ppm
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**Ingredients with biological limit values:**

**108-88-3 toluene**

BEI (USA)	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

**Exposure controls**

(Cont'd. on page 7)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART A**

(Cont'd. of page 6)

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Pregnant women should strictly avoid inhalation or skin contact.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

Keep ignition sources away - Do not smoke.

· **Engineering controls:** Provide adequate ventilation.

· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

No relevant information available.

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **Appearance:**

Form: Liquid

Color: According to product specification

· **Odor:** Sweet

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** 150 °C (302 °F)

· **Flash point:** 6.1 °C (43 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits**

Lower: Not determined.

Upper: Not determined.

(Cont'd. on page 8)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART A**

(Cont'd. of page 7)

· <b>Oxidizing properties:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	
<b>Relative density:</b>	1.31
<b>Vapor density:</b>	3.7 (air=1)
<b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>VOC content:</b>	485 g/L
· <b>Other information</b>	No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- **Possibility of hazardous reactions**  
Flammable liquid and vapor.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidizing agents.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products**  
  
Under fire conditions only:  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Contains n-butyl methacrylate, 2-hydroxyethyl acrylate. May produce an allergic reaction.
- **Carcinogenic categories**

(Cont'd. on page 9)





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**Trade name: FLO-THANE ALIPHATIC URETHANE - PART A**

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· **IARC (International Agency for Research on Cancer):**

13463-67-7 titanium dioxide

2B

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable route(s) of exposure:**

- Ingestion.
- Eye contact.
- Skin contact.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:**

Contains known or suspect carcinogens when inhaled. Product is in non-inhalable form and is nonclassifiable as a carcinogen.

· **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.

· **STOT-single exposure:** May cause drowsiness or dizziness.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

**12 Ecological information**

· **Toxicity**

- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.

· **Additional ecological information**

- **General notes:** Avoid release to the environment.
- **Other adverse effects** No relevant information available.

**13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation:**

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packagings**

- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

(Cont'd. on page 10)

**FLORIDA  
PAINTS****Safety Data Sheet**  
Acc. to OSHA HCS (29 CFR 1910.1200)

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**Trade name: FLO-THANE ALIPHATIC URETHANE - PART A**

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· **UN-Number**  
 · **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**  
 · **DOT, IATA** Paint  
 · **ADR, IMDG** PAINT

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **ADR**



· **Class** 3 (F1) Flammable liquids  
 · **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **Packing group**

· **DOT, ADR, IMDG, IATA** II

· **Environmental hazards**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids

· **Danger code (Kemler):** 33

· **EMS Number:** F-E,S-E

· **Transport in bulk according to Annex II of  
 MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

(Cont'd. on page 11)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART A**

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· **ADR**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IMDG**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

1344-28-1 | aluminum oxide

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

Reference to titanium dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.

13463-67-7 | titanium dioxide

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

108-88-3 | toluene

· **EPA (Environmental Protection Agency):**

(Cont'd. on page 12)

**FLORIDA  
PAINTS****Safety Data Sheet**  
Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 09/04/2020

Revision: 09/04/2020

**Trade name: FLO-THANE ALIPHATIC URETHANE - PART A**

(Cont'd. of page 11)

108-88-3 | toluene

II

**· IARC (International Agency for Research on Cancer):**

Reference to chemical component(s) listed below are based on unbound respirable particles and are not generally applicable to product as supplied.

13463-67-7 | titanium dioxide

2B

**· NIOSH-Ca (National Institute for Occupational Safety and Health):**

13463-67-7 | titanium dioxide

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Date of preparation / last revision** February 05, 2018 / -**· Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety &amp; Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

**· Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com



## 1 Identification

- **Product identifier**
- **Trade name:** Flo-Thane Aliphatic Urethane Part B
- **Product code:** 5149 Part B
- **Recommended use and restriction on use**
- **Recommended use:** Concrete paint/ concrete coating
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Florida Paint  
78 Third Street  
Winter Garden, FL 34787  
USA  
(407) 986-1000
- **Emergency telephone number:**  
ChemTel Inc.  
(800) 255-3924 (North America)  
(801) 1 (813)248-0585 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Liq. 2 H225 Highly flammable liquid and vapor.  
Acute Tox. 4 H332 Harmful if inhaled.  
Skin Irrit. 2 H315 Causes skin irritation.  
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Carc. 2 H351 Suspected of causing cancer.  
STOT SE 3 H335 May cause respiratory irritation.  
STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS02 GHS07 GHS08

- **Signal word:** Danger

- **Hazard statements:**

H225 Highly flammable liquid and vapor.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.

(Cont'd. on page 2)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 1)

- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H373 May cause damage to the hearing organs through prolonged or repeated exposure.

**Precautionary statements:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - 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 mist/vapors/spray.
- P264 Wash thoroughly after handling.
- 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.
- P284 In case of inadequate ventilation wear respiratory protection.
- 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** There are no other hazards not otherwise classified that have been identified.

**3 Composition/information on ingredients**

**Chemical characterization: Mixtures**

**Components:**

28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer ⚠ Acute Tox. 4, H332; STOT SE 3, H335	40-50%
1330-20-7	xylene ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	20-30%
763-69-9	ethyl 3-ethoxypropionate ⚠ Flam. Liq. 3, H226	15-25%
123-86-4	n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	<10%
100-41-4	ethylbenzene ⚠ Flam. Liq. 2, H225	<10%

(Cont'd. on page 3)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 2)

	<ul style="list-style-type: none"> <li>☠ Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304</li> <li>⚠ Acute Tox. 4, H332</li> </ul>	
822-06-0	hexamethylene-di-isocyanate <ul style="list-style-type: none"> <li>☠ Acute Tox. 3, H311; Acute Tox. 1, H330</li> <li>☠ Resp. Sens. 1, H334</li> <li>⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335</li> </ul>	<1%

**Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
For the wording of the listed Hazard Statements, refer to section 16.

**4 First-aid measures**

**Description of first aid measures**

**After inhalation:**

Respiration of particulates is unlikely during normal usage.  
Supply fresh air; consult doctor in case of complaints.  
Provide oxygen treatment if affected person has difficulty breathing.

**After skin contact:**

Immediately remove any clothing soiled by the product.  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Do not induce vomiting; immediately call for medical help.  
A person vomiting while lying on their back should be turned onto their side.

**Most important symptoms and effects, both acute and delayed:**

Headache  
Coughing  
Allergic reactions  
Irritant to skin and mucous membranes.

**Danger:**

Suspected of damaging fertility or the unborn child.  
May cause damage to the hearing organs through prolonged or repeated exposure.  
Harmful if inhaled.  
May cause respiratory irritation.  
Suspected of causing cancer.

**Indication of any immediate medical attention and special treatment needed:**

Contains hexamethylene-di-isocyanate. May produce an allergic reaction.  
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.  
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

**5 Fire-fighting measures**

**Extinguishing media**

(Cont'd. on page 4)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 3)

- **Suitable extinguishing agents:**
  - Water fog / haze
  - Foam
  - Carbon dioxide
  - Gaseous extinguishing agents
  - Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information:** Eliminate all ignition sources if safe to do so.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation.
  - Keep away from ignition sources.
  - Protect from heat.
- **Environmental precautions** Avoid release to the environment.
- **Methods and material for containment and cleaning up**
  - Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents
  - Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

**7 Handling and storage**

- **Handling**
- **Precautions for safe handling:**
  - Avoid splashes or spray in enclosed areas.
  - Use only in well ventilated areas.
  - Open and handle receptacle with care.
  - Avoid contact with the eyes and skin.
  - Avoid breathing mist, vapors, or spray.
- **Information about protection against explosions and fires:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Flammable gas-air mixtures may be formed in empty containers/receptacles.
  - Flammable liquid and vapor.

(Cont'd. on page 5)





**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 4)

- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.  
Store in cool, dry conditions in well sealed receptacles.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidizing agents.
- **Specific end use(s)** No relevant information available.

**8 Exposure controls/personal protection**

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**1330-20-7 xylene**

PEL (USA)	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm
EV (Canada)	Short-term value: 650 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
LMPE (Mexico)	Short-term value: 150 ppm Long-term value: 100 ppm A4, IBE

**763-69-9 ethyl 3-ethoxypropionate**

EV (Canada)	Long-term value: 300 mg/m <sup>3</sup> , 50 ppm
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**123-86-4 n-butyl acetate**

PEL (USA)	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
REL (USA)	Long-term value: 950 mg/m <sup>3</sup> , 200 ppm
TLV (USA)	Short-term value: 712 mg/m <sup>3</sup> , 150 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm
EL (Canada)	Long-term value: 20 ppm
EV (Canada)	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
LMPE (Mexico)	Short-term value: 200 ppm Long-term value: 150 ppm

**100-41-4 ethylbenzene**

PEL (USA)	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Long-term value: 87 mg/m <sup>3</sup> , 20 ppm

(Cont'd. on page 6)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 5)

EL (Canada)	BEI Long-term value: 20 ppm IARC 2B
EV (Canada)	Short-term value: 540 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
LMPE (Mexico)	Long-term value: 20 ppm

**822-06-0 hexamethylene-di-isocyanate**

REL (USA)	Long-term value: 0.035 mg/m <sup>3</sup> , 0.005 ppm Ceiling limit value: 0.14* mg/m <sup>3</sup> , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.034 mg/m <sup>3</sup> , 0.005 ppm BEI
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm S(R)
EV (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm
LMPE (Mexico)	Long-term value: 0.005 ppm

**Ingredients with biological limit values:**

**1330-20-7 xylene**

BEI (USA)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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**100-41-4 ethylbenzene**

BEI (USA)	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

**Exposure controls**

**General protective and hygienic measures:**

- The usual precautionary measures for handling chemicals should be followed.
- Keep away from foodstuffs, beverages and feed.
- Pregnant women should strictly avoid inhalation or skin contact.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Avoid breathing mist, vapors, or spray.
- Keep ignition sources away - Do not smoke.

· **Engineering controls:** Provide adequate ventilation.

· **Breathing equipment:** Suitable respiratory protective device recommended.

· **Protection of hands:**

(Cont'd. on page 7)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 6)



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

No relevant information available.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

· **Appearance:**

· **Form:** Liquid  
· **Color:** According to product specification

· **Odor:** Sweet

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** 150 °C (302 °F)

· **Flash point:** 6.1 °C (43 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Oxidizing properties:** Not determined.

· **Vapor pressure:** Not determined.

· **Density:**

· **Relative density:** 0.992

· **Vapor density:** 3.7 (air=1)

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

(Cont'd. on page 8)



**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 7)

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity**
  - Dynamic:** 250 cps
  - Kinematic:** Not determined.
- **VOC content:** 485 g/L
- **Other information** No relevant information available.

**10 Stability and reactivity**

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- **Possibility of hazardous reactions**  
Flammable liquid and vapor.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.  
Exothermic reaction with acids.  
Reacts with amines.
- **Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidizing agents.
- **Incompatible materials**  
Oxidizers  
Strong acids
- **Hazardous decomposition products**  
Carbon monoxide and carbon dioxide  
Isocyanate

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**  
Harmful if inhaled.  
May be harmful in contact with skin.

· **LD/LC50 values that are relevant for classification:**

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

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)

**1330-20-7 xylene**

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

**100-41-4 ethylbenzene**

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**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 8)

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)

**822-06-0 hexamethylene-di-isocyanate**

Oral	LD50	959 mg/kg (rat)
Dermal	LD50	593 mg/kg (rat)
Inhalative	LC50/4h	124 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:**  
Contains hexamethylene-di-isocyanate. May produce an allergic reaction.  
May cause sensitisation by inhalation and skin contact.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer):**

100-41-4	ethylbenzene	2B
98-82-8	cumene	2B

· **NTP (National Toxicology Program):**

98-82-8	cumene	R
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· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**  
Ingestion.  
Eye contact.  
Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Suspected of causing cancer.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** May cause respiratory irritation.
- **STOT-repeated exposure:**  
May cause damage to the hearing organs through prolonged or repeated exposure.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity**

**1330-20-7 xylene**

LC50 13.4 mg/l (pimephales promelas)

**100-41-4 ethylbenzene**

EC50 1-10 mg/kg (daphnia)  
LC50 1-10 mg/l (Green Algae (chlorophyta))  
4.2 mg/l (Oncorhynchus mykiss)

- **Persistence and degradability** No relevant information available.

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**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 9)

- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Avoid release to the environment.
- **Other adverse effects** No relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1263

- **UN proper shipping name**
- **DOT, IATA** Paint
- **ADR, IMDG** PAINT

· **Transport hazard class(es)**

· **DOT**



- **Class** 3 Flammable liquids
- **Label** 3

· **ADR**



- **Class** 3 (F1) Flammable liquids
- **Label** 3

(Cont'd. on page 11)

**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 10)

· **IMDG, IATA**

· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3

· **Packing group**

· <b>DOT, ADR, IMDG, IATA</b>	II
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· **Environmental hazards**

· <b>Marine pollutant:</b>	No
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· **Special precautions for user**

Warning: Flammable liquids

· **Danger code (Kemler):**

33

· **EMS Number:**F-E,S-E· **Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **DOT**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **ADR**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IMDG**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IATA**

Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**

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**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

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· **SARA**· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

1330-20-7 | xylene

100-41-4 | ethylbenzene

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

100-41-4 | ethylbenzene

98-82-8 | cumene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**

1330-20-7 | xylene

I

100-41-4 | ethylbenzene

D

· **IARC (International Agency for Research on Cancer):**

100-41-4 | ethylbenzene

2B

98-82-8 | cumene

2B

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** February 05, 2018 / -· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety &amp; Health Administration

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Revision: 09/04/2020

**Trade name: FLO-THANE ALIPHATIC URETHANE - PART B**

(Cont'd. of page 12)

TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
BEI: Biological Exposure Limit  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 1: Acute toxicity – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
Carc. 2: Carcinogenicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1

• **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

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