

# Material Safety Data Sheet

## F-900 - One Part Industrial Adhesive

### 1. Product and company identification

<b>Product name</b>	: F-900 - One Part Industrial Adhesive
<b>Synonym</b>	: NK
<b>Material uses</b>	: Adhesive.
<b>Supplier/Manufacturer</b>	: Fenner Dunlop 146 South Westwood P. O. Box 441 Toledo, OH 43697 Tel : (419) 534 5300 ext. 324 Fax : (419) 531-6284 Email : Dan.hoca@fennerdunlop.com
<b>Code</b>	: F-900
<b>MSDS authored by</b>	: KMK Regulatory Services inc.
<b>In case of emergency</b>	: CHEMTREC, U.S. : 1-800-424-9300    International: +1-703-527-3887
<b>Product type</b>	: Liquid.

### 2. Hazards identification

#### Emergency overview

<b>Color</b>	: Black.
<b>Physical state</b>	: Liquid. (Thin.)
<b>Odor</b>	: Ketone. [Slight]
<b>Signal word</b>	: DANGER!
<b>Hazard statements</b>	: EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
<b>Precautions</b>	: Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: Aspiration hazard if swallowed. Can enter lungs and cause damage. May be harmful if swallowed.
<b>Skin</b>	: Irritating to skin. May cause sensitization by skin contact.
<b>Eyes</b>	: Irritating to eyes.

#### Potential chronic health effects

<b>Chronic effects</b>	: Contains material that can cause target organ damage. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
<b>Carcinogenicity</b>	: Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## 2. Hazards identification

- Target organs** : Contains material which may cause damage to the following organs: kidneys, lungs, liver, peripheral nervous system, upper respiratory tract, skin, eyes, central nervous system (CNS).
- Over-exposure signs/symptoms**
- Inhalation** : No specific data.
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting
- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- Eyes** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Medical conditions aggravated by over-exposure** : Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

## 3. Composition/information on ingredients

### United States

Name	CAS number	%
Toluene	108-88-3	30 - 60
Methyl ethyl ketone	78-93-3	30 - 60
Carbon black	1333-86-4	1 - 5
Cadmium	7440-43-9	0.1 - 1
Lead	7439-92-1	0.1 - 1

### Canada

Name	CAS number	%
Toluene	108-88-3	30 - 60
Methyl ethyl ketone	78-93-3	30 - 60
Carbon black	1333-86-4	1 - 5
Cadmium	7440-43-9	0.1 - 1
Lead	7439-92-1	0.1 - 1

### Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
Toluene	108-88-3	UN1294	30 - 60	500 ppm	2	3	1	
Methyl ethyl ketone	78-93-3	UN1193	30 - 60	3000 ppm	2	3	0	
Carbon black	1333-86-4	Not regulated.	1 - 5	1750 mg/m <sup>3</sup>	2	0	0	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.

## 4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : No specific treatment. Treat symptomatically.

## 5. Fire-fighting measures

- Flammability of the product** : Extremely flammable liquid.
- Extinguishing media**
- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
  - Not suitable** : Do not use water jet.
- Special exposure hazards** : This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions** : Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Hazardous to aquatic environment. May cause long-term adverse effects in the aquatic environment. Prevent leaking substances from running into the aquatic environment or the sewage system.
- Methods for cleaning up**
- Spill** : Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 7. Handling and storage

**Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### United States

Ingredient	Exposure limits
Toluene	<p><b>NIOSH REL (United States, 6/2008).</b>            STEL: 560 mg/m<sup>3</sup> 15 minute(s).            STEL: 150 ppm 15 minute(s).            TWA: 375 mg/m<sup>3</sup> 10 hour(s).            TWA: 100 ppm 10 hour(s).</p> <p><b>OSHA PEL Z2 (United States, 11/2006).</b>            AMP: 500 ppm 10 minute(s).            CEIL: 300 ppm            TWA: 200 ppm 8 hour(s).</p> <p><b>ACGIH TLV (United States, 1/2009).</b>            TWA: 20 ppm 8 hour(s).</p>
Methyl ethyl ketone	<p><b>ACGIH TLV (United States, 1/2009).</b>            STEL: 885 mg/m<sup>3</sup> 15 minute(s).            STEL: 300 ppm 15 minute(s).            TWA: 590 mg/m<sup>3</sup> 8 hour(s).            TWA: 200 ppm 8 hour(s).</p> <p><b>NIOSH REL (United States, 6/2008).</b>            STEL: 885 mg/m<sup>3</sup> 15 minute(s).            STEL: 300 ppm 15 minute(s).            TWA: 590 mg/m<sup>3</sup> 10 hour(s).            TWA: 200 ppm 10 hour(s).</p> <p><b>OSHA PEL (United States, 11/2006).</b>            TWA: 590 mg/m<sup>3</sup> 8 hour(s).            TWA: 200 ppm 8 hour(s).</p>
Carbon black	<p><b>ACGIH TLV (United States, 1/2009).</b>            TWA: 3.5 mg/m<sup>3</sup> 8 hour(s).</p> <p><b>NIOSH REL (United States, 6/2008).</b>            TWA: 3.5 mg/m<sup>3</sup> 10 hour(s).            TWA: 0.1 mg of PAHs/cm<sup>3</sup> 10 hour(s).</p> <p><b>OSHA PEL (United States, 11/2006).</b>            TWA: 3.5 mg/m<sup>3</sup> 8 hour(s).</p>
Cadmium	<p><b>OSHA PEL Z2 (United States, 11/2006).</b>            TWA: 0.2 mg/m<sup>3</sup> 8 hour(s). Form: Dust            CEIL: 0.6 mg/m<sup>3</sup> Form: Dust            CEIL: 0.3 mg/m<sup>3</sup> Form: Fume            TWA: 0.1 mg/m<sup>3</sup> 8 hour(s). Form: Fume</p> <p><b>ACGIH TLV (United States, 1/2009).</b>            TWA: 0.002 mg/m<sup>3</sup>, (Cd) 8 hour(s).</p> <p><b>OSHA PEL (United States, 11/2006).</b>            TWA: 5 ug/m<sup>3</sup>, (Cd) 8 hour(s).</p>
Lead	<p><b>ACGIH TLV (United States, 1/2009).</b>            TWA: 0.05 mg/m<sup>3</sup>, (Pb) 8 hour(s).</p> <p><b>NIOSH REL (United States, 6/2008).</b>            TWA: 0.05 mg/m<sup>3</sup> 10 hour(s).</p> <p><b>OSHA PEL (United States, 11/2006).</b>            TWA: 50 ug/m<sup>3</sup>, (Pb) 8 hour(s).</p>

## 8. Exposure controls/personal protection

### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
Toluene	US ACGIH 1/2009	20	-	-	-	-	-	-	-	-	
	AB 6/2008	50	188	-	-	-	-	-	-	-	[1]
	BC 6/2008	20	-	-	-	-	-	-	-	-	
	ON 6/2008	50	-	-	-	-	-	-	-	-	
	QC 6/2008	50	188	-	-	-	-	-	-	-	[1]
Methyl ethyl ketone	US ACGIH 1/2009	200	590	-	300	885	-	-	-	-	
	AB 6/2008	200	590	-	300	885	-	-	-	-	
	BC 6/2008	50	-	-	100	-	-	-	-	-	
	ON 6/2008	200	590	-	300	885	-	-	-	-	
	QC 6/2008	50	150	-	100	300	-	-	-	-	
Carbon black	US ACGIH 1/2009	-	3.5	-	-	-	-	-	-	-	
	AB 6/2008	-	3.5	-	-	-	-	-	-	-	
	BC 6/2008	-	3.5	-	-	-	-	-	-	-	
	ON 6/2008	-	3.5	-	-	-	-	-	-	-	
	QC 6/2008	-	3.5	-	-	-	-	-	-	-	
Cadmium, Cd	US ACGIH 1/2009	-	0.002	-	-	-	-	-	-	-	
	AB 6/2008	-	0.01	-	-	-	-	-	-	-	
Cadmium, Cd	BC 6/2008	-	0.002	-	-	-	-	-	-	-	[a]
		-	0.01	-	-	-	-	-	-	-	
	ON 6/2008	-	0.01	-	-	-	-	-	-	-	
	QC 6/2008	-	0.025	-	-	-	-	-	-	-	
	US ACGIH 1/2009	-	0.05	-	-	-	-	-	-	-	
Lead, Pb	AB 6/2008	-	0.05	-	-	-	-	-	-	-	
	BC 6/2008	-	0.05	-	-	-	-	-	-	-	
	QC 6/2008	-	0.05	-	-	-	-	-	-	-	
		-	0.05	-	-	-	-	-	-	-	
		-	0.05	-	-	-	-	-	-	-	

[1]Absorbed through skin.

Form: [a]Respirable

### Mexico

Ingredient	Exposure limits
Toluene	<b>NOM-010-STPS (Mexico, 9/2000). Absorbed through skin.</b> LMPE-PPT: 188 mg/m <sup>3</sup> 8 hour(s). LMPE-PPT: 50 ppm 8 hour(s).
Methyl ethyl ketone	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-CT: 885 mg/m <sup>3</sup> 15 minute(s). LMPE-CT: 300 ppm 15 minute(s). LMPE-PPT: 590 mg/m <sup>3</sup> 8 hour(s). LMPE-PPT: 200 ppm 8 hour(s).
Carbon black	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-CT: 7 mg/m <sup>3</sup> 15 minute(s). Form: smoke LMPE-PPT: 3.5 mg/m <sup>3</sup> 8 hour(s). Form: smoke

### Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures** : Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Respiratory** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.

**Hands** : Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).

## 8. Exposure controls/personal protection

- Eyes** : Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

- Physical state** : Liquid. (Thin.)
- Flash point** : Closed cup: -6.7°C (19.9°F) [Tagliabue.]
- Flammable limits** : Lower: 1.4%  
Upper: 10%
- Color** : Black.
- Odor** : Ketone. [Slight]
- Boiling/condensation point** : 79.4 to 110.6°C (174.9 to 231.1°F)
- Specific gravity** : 0.92667 g/cm<sup>3</sup>
- Vapor density** : >1 [Air = 1]
- Volatility** : 80% (v/v)
- Evaporation rate** : 4.6 (butyl acetate = 1)
- Solubility** : Insoluble in the following materials: cold water and hot water.

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid exposure - obtain special instructions before use. Do not swallow.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials and acids.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m3	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Methyl ethyl ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Carbon black	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-
Cadmium	LD50 Oral	Rat	2330 mg/kg	-

# 11. Toxicological information

## Chronic toxicity

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Toluene	A4	3	-	-	-	-
Carbon black	A4	2B	-	+	-	-
Cadmium	A2	2A	-	+	Proven.	+
Lead	A3	2B	-	None.	Possible	-

# 12. Ecological information

**Environmental effects** : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 6000 ug/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
Methyl ethyl ketone	Acute LC50 5500 ug/L Fresh water	Fish - Oncorhynchus kisutch - FRY - 1 g	96 hours
	Chronic NOEC 28000 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
	Acute LC50 >520000 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
	Acute LC50 >400 ppm Marine water	Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling, Weanling) - 8 to 15 mm	96 hours
	Chronic NOEC <70000 ug/L Fresh water Chronic NOEC 400 ppm Marine water	Daphnia - Daphnia magna - <=24 hours Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling, Weanling) - 8 to 15 mm	48 hours 96 hours
Cadmium	Acute LC50 24 ug/L Fresh water	Crustaceans - Simocephalus vetulus - <24 hours	48 hours
	Acute LC50 24 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
	Acute LC50 1 ug/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - <1 months	96 hours
Lead	Chronic NOEC 1.33 ug/L Fresh water	Fish - Oncorhynchus tshawytscha	96 hours
	Acute LC50 933 ug/L Marine water	Crustaceans - Penaeus chinensis	48 hours
	Acute LC50 530 ug/L Fresh water	Daphnia - Ceriodaphnia reticulata - <4 hours	48 hours
	Acute LC50 0.44 ppm Fresh water	Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling) - 3.5 cm	96 hours

**Other adverse effects** : No known significant effects or critical hazards.








# 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

## 14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	UN1133	ADHESIVES (Containing a flammable liquid)	3	II		<b>Packaging instruction</b> <b>Passenger aircraft</b> Quantity limitation: 5 to 5 L  <b>Cargo aircraft</b> Quantity limitation: 60 to 60 L
<b>TDG Classification</b>	UN1133	ADHESIVES (Containing a flammable liquid)	3	II		-
<b>Mexico Classification</b>	UN1133	ADHESIVES (Containing a flammable liquid)	3	II		-
<b>IMDG Class</b>	UN1133	ADHESIVES (Containing a flammable liquid). Marine pollutant (Cadmium)	3	II	 	-
<b>IATA-DGR Class</b>	UN1133	ADHESIVES (Containing a flammable liquid)	3	II	 	-

PG\* : Packing group  
Exemption to the above classification may apply.

**AERG : 128**

## 15 . Regulatory information

### United States

**HCS Classification** : Flammable liquid  
Irritating material  
Sensitizing material  
Carcinogen  
Target organ effects

**U.S. Federal regulations** : **TSCA 6 proposed risk management:** Lead  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**TSCA 8(d) H and S data reporting:** Lead: 2008  
**TSCA 12(b) one-time export:** Lead  
**TSCA 12(b) annual export notification:** Lead

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** Toluene; Methyl ethyl ketone; Carbon black

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

Toluene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;  
Methyl ethyl ketone: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;  
Carbon black: Immediate (acute) health hazard, Delayed (chronic) health

## 15 . Regulatory information

hazard

**Clean Water Act (CWA) 307:** Toluene; Cadmium; Lead

**Clean Water Act (CWA) 311:** Toluene

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

**Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Listed

### SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	Toluene	108-88-3	30 - 60
	Methyl ethyl ketone	78-93-3	30 - 60
	Cadmium	7440-43-9	0.1 - 1
	Lead	7439-92-1	0.1 - 1
<b>Supplier notification</b>	Toluene	108-88-3	30 - 60
	Methyl ethyl ketone	78-93-3	30 - 60
	Cadmium	7440-43-9	0.1 - 1
	Lead	7439-92-1	0.1 - 1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

- State regulations** :
- Connecticut Carcinogen Reporting:** None of the components are listed.
  - Connecticut Hazardous Material Survey:** None of the components are listed.
  - Florida substances:** None of the components are listed.
  - Illinois Chemical Safety Act:** None of the components are listed.
  - Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.
  - Louisiana Reporting:** None of the components are listed.
  - Louisiana Spill:** None of the components are listed.
  - Massachusetts Spill:** None of the components are listed.
  - Massachusetts Substances:** The following components are listed: Toluene; Methyl ethyl ketone; Carbon black
  - Michigan Critical Material:** None of the components are listed.
  - Minnesota Hazardous Substances:** None of the components are listed.
  - New Jersey Hazardous Substances:** The following components are listed: Toluene; Methyl ethyl ketone; Carbon black; Cadmium; Lead
  - New Jersey Spill:** None of the components are listed.
  - New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.
  - New York Acutely Hazardous Substances:** The following components are listed: Toluene; Methyl ethyl ketone; Cadmium; Lead
  - New York Toxic Chemical Release Reporting:** None of the components are listed.
  - Pennsylvania RTK Hazardous Substances:** The following components are listed: Toluene; Methyl ethyl ketone; Carbon black; Cadmium; Lead
  - Rhode Island Hazardous Substances:** None of the components are listed.

## 15 . Regulatory information

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Toluene	No.	Yes.	No.	7000 µg/day (ingestion) 13000 µg/day (inhalation)
Carbon black	Yes.	No.	No.	No.
Cadmium	Yes.	Yes.	0.05 µg/day (inhalation)	Yes.
Lead	Yes.	Yes.	15 µg/day (ingestion)	Yes.

### Canada

#### WHMIS (Canada)

- : Class B-2: Flammable liquid
- Class D-2A: Material causing other toxic effects (Very toxic).
- Class D-2B: Material causing other toxic effects (Toxic).

#### Canadian lists

- : **CEPA Toxic substances:** The following components are listed: Lead
- Canadian ARET:** None of the components are listed.
- Canadian NPRI:** The following components are listed: Toluene; Methyl ethyl ketone; Cadmium; Lead
- Alberta Designated Substances:** None of the components are listed.
- Ontario Designated Substances:** None of the components are listed.
- Quebec Designated Substances:** None of the components are listed.

**Canada inventory** : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Mexico

#### Classification

:



### International regulations

#### International lists

- : **Australia inventory (AICS):** All components are listed or exempted.
- China inventory (IECSC):** All components are listed or exempted.
- Japan inventory:** Not determined.
- Korea inventory:** All components are listed or exempted.
- New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.
- Philippines inventory (PICCS):** All components are listed or exempted.

#### Chemical Weapons Convention List Schedule I Chemicals

: Not listed

#### Chemical Weapons Convention List Schedule II Chemicals

: Not listed

#### Chemical Weapons Convention List Schedule III Chemicals

: Not listed

## 16 . Other information

### United States

#### Label requirements

: EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

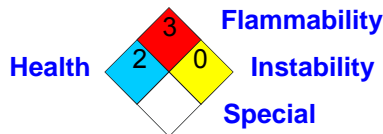
#### Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		3
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

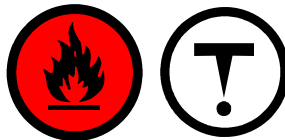
The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (U.S.A.)



### Canada

#### WHMIS (Canada)



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#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Dr. Luc Séguin, PhD chemist, 25 years as a professional in regulatory compliance



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