



# DINO CS Fluid

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	DINOCSFluid
<b>Other Means of Identification</b>	SLV-023
<b>Other Identification</b>	Polyurea solvent
<b>Product Family</b>	Solvent
<b>Recommended Use</b>	Used to clean out liquid polyurethane in spray equipment.
<b>Restrictions on Use</b>	Before cleaning the spray gun with DINOCSFluid, remove all o-rings and rubber gaskets out of spray gun.
<b>Manufacturer/Supplier Identifier</b>	Cortez Industries Inc., 925 Mid-Way Blvd Unit 2, Mississauga, ON, L5T 1L9, Canada, Blair Duguid, 1-905-301-4152, www.cortezindustries.ca
<b>Supplier Identifier</b>	Cortez Industries Inc., 925 Mid-Way Blvd Unit 2, Mississauga, ON, L5T 1L9, Canada, Blair Duguid, 1-905-301-4152, www.cortezindustries.ca
<b>Emergency Phone No.</b>	Canutec, 1-613-996-6666 Blair Duguid, 1-905-301-4152
<b>SDS No.</b>	0057

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Flammable liquid - Category 4; Acute toxicity (Dermal) - Category 5; Acute toxicity (Inhalation) - Category 5; Eye irritation - Category 2B

### Label Elements

#### Warning

H227 Combustible liquid.

#### Precautionary Statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention. water spray or fog  
carbon dioxide  
dry chemical powder  
appropriate foam

#### Storage:

P403 Store in a well-ventilated place.

#### Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

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**Other Hazards**

Use in a well ventilated room, vapour extraction should be close to the floor. Combustible liquid.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Dipropylene glycol monomethyl ether	34590-94-8	93 - 100	SLV-023	DPGME, Dipropylene glycol methyl ether

**SECTION 4. FIRST-AID MEASURES****First-aid Measures****Inhalation**

Remove source of exposure or move to fresh air. Keep the person warm and rested. Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in a recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.

**Skin Contact**

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Remove contaminated clothing. Rinse with large amounts of water. Call a POISON CENTRE or doctor physician if you feel unwell.

**Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Protect unharmed eye obtain immediate medical attention. Consult an ophthalmologist.

**Ingestion**

Rinse mouth with water. Rinse mouth and drink plenty of water. DO NOT induce vomiting unless directed by a physician or poison control centre. Keep the person calm. If a person vomits and is lying on their back, turn it to one side. If the symptoms persist, take victim immediately to hospital with the MSDS of the product swallowed.

**First-aid Comments**

If medical advice is needed, have product container or label at hand. Get medical advice or attention if you feel unwell or are concerned. May cause transient eye irritation. corneal injury is unlikely. Very low toxicity if swallowed. Harmful effects not anticipated if swallowed small amounts. Excessive exposure may cause irritation to upper respiratory tract (nose and throat). Symptoms of excessive exposure may be anesthetic or narcotic effects, dizziness and drowsiness may be observed.

**Most Important Symptoms and Effects, Acute and Delayed**

May cause transient eye irritation. corneal injury is unlikely. Very low toxicity if swallowed. Harmful effects not anticipated if swallowed small amounts. Excessive exposure may cause irritation to upper respiratory tract (nose and throat). Symptoms of excessive exposure may be anesthetic or narcotic effects, dizziness and drowsiness may be observed. Prolonged skin contact with large amounts may cause drowsiness.

**Immediate Medical Attention and Special Treatment****Target Organs**

The most important known symptoms and effects are described on the labelling, refer to section 2 and 11 of the MSDS.

**Special Instructions**

If medical advice is needed, have product container or label at hand.

**Medical Conditions Aggravated by Exposure**

If medical attention is needed, have product container or label at hand. Review product MSDS section 4 for more information.

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## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Water fog. By order of priority: Carbone dioxide CO<sub>2</sub>, dry chemical powder, foam.

#### Unsuitable Extinguishing Media

High volume water jet. Do not use a heavy water stream. A heavy water stream may spread burning liquid. Water may be ineffective because it may not cool material below its flash point.

### Specific Hazards Arising from the Product

Pressure is sealed containers may increase under the influence of heat and cause violent container rupture. Combustible liquid. Can ignite if heated. Releases vapour that can form explosive mixture with air at or above the flash point. Use water spray to cool fire-exposed containers and structure. Isolate and restricted area access. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire and/or health hazard.

### Special Protective Equipment and Precautions for Fire-fighters

Exercise caution when fighting any chemical fire. Under fire conditions hazardous fumes will be present. Use positive pressure self-contained breathing apparatus in addition to the standard fire fighting equipment. Use water spray to keep fire exposed containers cool.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials. Firefighter should be equipped with self-contained breathing apparatus and turn-out gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

For additional precautions and advice on safe handling, see section 7. Never reintroduce the spilled product to its original container for reuse. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Remove or isolate incompatible materials as well as other hazardous materials. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Before entry, especially into confined areas, check atmosphere with an appropriate monitor.

### Environmental Precautions

It is good practice to prevent releases into the environment. Notify local authorities if significant amount of product leaks and cannot be contained. In the event of pollution of a body of water or sewer, notify the competent authorities in accordance with local regulations.

### Methods and Materials for Containment and Cleaning Up

Small spills or leaks: stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place the absorbent material on the liquid allowing it to absorb (30 minutes) and collect with none speak shovel in sealed labelled containers for disposal according to local regulations. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product. Large spills or leaks: dike spilled product to prevent runoff. Place the absorbent material on the liquid allowing it to absorb (30 minutes) and collect with none speak shovel in sealed labelled containers for disposal according to local regulations. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product. In case a spill, remove sources of ignition, contain and recover liquid when possible. Store recovered product in suitable containers that are: contact emergency services and manufacturer/supplier for advice. Compatible container with the product, then seal tightly and store in a safe cool and ventilated area until disposal.

### Other Information

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid breathing in this product. Wear personal protection equipment see section 8. Avoid contact with skin and eyes. Avoid ingestion and inhalation only use where there is adequate ventilation. Immediately report leaks, spills or failures

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of the safety equipment (e.g. ventilation system). Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Wash hands thoroughly after handling this material. See Section 13 (Disposal Considerations) of this safety data sheet.

**Conditions for Safe Storage**

Keep in properly labeled container. Respect label warnings. Close all opened containers securely and store vertically to prevent flow. Store in an area that is: cool, well-ventilated, out of direct sunlight and away from heat and ignition sources.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Dipropylene glycol monomethyl ether	100 ppm	150 ppm Skin				

Good ventilation should be used. Ventilation rates should be matched to conditions. Use local exhaust ventilation or other engineering controls. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Proper grounding procedures to avoid static electricity build-up should be followed.

**Appropriate Engineering Controls**

Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

**Individual Protection Measures**

**Eye/Face Protection**

Ensure an eye shower and safety shower are located near the workstation. Wear chemical safety goggles and face shield when contact is possible.

**Skin Protection**

Hygiene measures in accordance with good hygiene and safety practice. Wash hands before breaks and at the end of workday. Use non-sparking, grounded ventilation systems, approved explosion-proof equipment and intrinsically safe electric systems in area of use. Exhaust outside. Supply sufficient replacement air to make up for air removed by exhaust systems. Glove suitability for the specific type of work and or exposure time should be evaluated by a protective glove supplier. Provide eyewash and safety showers.

Suitable materials are: neoprene rubber, nitrile rubber, natural rubber.

**Respiratory Protection**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep gas vapour concentrations as low as possible below the TWA 8 hour exposure limits. Use explosive-proof ventilation equipment. Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge. Respirator selection should be based on known or anticipated exposure levels, the hazard of the product, and the safe use limits of the selected respirator. In emergencies, non-routine and unknown exposure situation, including entrances in confined spaces, wear NIOSH approved self-contained full-face respirator. IDLH (Immediate danger to human life) for this product is 600 PPM.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Basic Physical and Chemical Properties**

<b>Appearance</b>	Colourless liquid. Particle Size: Not applicable
<b>Odour</b>	Ethereal
<b>Odour Threshold</b>	34.7 ppm (209.6 mg/m3)
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	-82 °C (-116 °F) (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	190 °C (374 °F)
<b>Flash Point</b>	75 °C (167 °F)

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<b>Evaporation Rate</b>	0.02 (n-butyl acetate = 1)
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	14% (upper); 1.1% (lower)
<b>Vapour Pressure</b>	0.41 mm Hg (0.05 kPa) at 25 °C
<b>Vapour Density (air = 1)</b>	5.11
<b>Relative Density (water = 1)</b>	0.951 at 25 °C
<b>Solubility</b>	Soluble in all proportions at 25 °C in water; Soluble in all proportions in ketones (e.g. acetone).
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	-0.064
<b>Auto-ignition Temperature</b>	207 °C (405 °F)
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	3.61 mm <sup>2</sup> /s at 25 °C (kinematic); 3.42 centipoises at 25 °C (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Molecular Formula</b>	C7 H16 O3
<b>Molecular Weight</b>	148.2
<b>Bulk Density</b>	Not available
<b>Surface Tension</b>	Not available
<b>Critical Temperature</b>	Not available
<b>Electrical Conductivity</b>	Not available
<b>Vapour Pressure at 50 deg C</b>	Not available
<b>Saturated Vapour Concentration</b>	400 ppm at 20 °C

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Stable at normal conditions.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Generation of gas during decomposition can cause pressure in closed systems. Do not distill to dryness. Product can oxidize at elevated temperatures. Temperatures above 75.0 °C (167.0 °F)

### Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong bases (e.g. sodium hydroxide), strong acids (e.g. hydrochloric acid).

Not corrosive to metals.

### Hazardous Decomposition Products

Aldehydes, ketones, organic acids.

## SECTION 11. TOXICOLOGICAL INFORMATION

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye and skin contact.

### Likely Routes of Exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye and skin contact.

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## Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Dipropylene glycol monomethyl ether		5400 mg/kg (rat)	9500 mg/kg (rabbit)
Inhalation ATE mix = Non Non numeric mg/L (4-hour exposure) (vapour)			
100% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)			
Oral ATE mix = 5400 mg/kg			
0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral)			
Dermal ATE mix = 9500 mg/kg			
0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)			

### Skin Corrosion/Irritation

Human experience and animal tests show no or very mild irritation.

### Serious Eye Damage/Irritation

Human experience and animal tests show no or very mild irritation.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

Respiratory tract irritation. Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

#### Skin Absorption

Prolonged exposure not likely to cause significant skin irritation. Prolonged skin contact with very large amounts may cause drowsiness.

#### Ingestion

Of low toxicity after single ingestion.

### Aspiration Hazard

No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Prolonged skin contact with very large amounts may cause drowsiness. Not likely to cause significant skin irritation. May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

### Carcinogenicity

Not known to cause cancer.

### Reproductive Toxicity

#### Development of Offspring

The limited evidence available does not indicate the product is a developmental toxin.

#### Sexual Function and Fertility

The limited evidence available does not indicate that the product is a reproductive toxin.

#### Effects on or via Lactation

No information was located.

### Germ Cell Mutagenicity

No information was located.

### Interactive Effects

No information was located.

### Other Information

No information found.

## SECTION 12. ECOLOGICAL INFORMATION

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There is limited ecological information available.

**Ecotoxicity**

There is limited ecological information available.

**Acute Aquatic Toxicity**

<b>Chemical Name</b>	<b>LC50 Fish</b>	<b>EC50 Crustacea</b>	<b>ErC50 Aquatic Plants</b>	<b>ErC50 Algae</b>
Dipropylene glycol monomethyl ether	1000 mg/L (Pimephales promelas (fathead minnow); 96-hour; fresh water; static)			

**Persistence and Degradability**

No information was located.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

Studies are not available.

**Other Adverse Effects**

There is no information available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Do not expose containers to heat, flames, sparks, static electricity or other sources of ignition. Dispose of contents and container in accordance with local, regional, national and international regulations. Store product for disposal as described under Storage in Section 7 of this safety data sheet. Dispose of or recycle empty containers through an approved waste management facility.

**SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15. REGULATORY INFORMATION**

**Safety, Health and Environmental Regulations**

Product is present in the U.S.TSCA.

**Canada**

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

Not listed on the DSL or NDSL.

**CEPA - National Pollutant Release Inventory (NPRI)**

The components are not marine pollutant.

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

**Additional USA Regulatory Lists**

No information available.

**Custom Regulatory 1**

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No information available.

**Custom Regulatory 2**

No information available.

**Custom Regulatory 3**

No information is available.

**SECTION 16. OTHER INFORMATION**

**NFPA Rating**                      **Health - 0**      **Flammability - 2**                      **Instability - 0**

**SDS Prepared By**              Cortez Industries

**Phone No.**                      1-905-301-4152

**Date of Preparation**            février 10, 2020

**Date of Last Revision**        juillet 12, 2017

**Revision Indicators**        MSDS was entirely reviewed.

**Key to Abbreviations**        ACGIH® = American Conference of Governmental Industrial Hygienists  
NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health  
NTP = National Toxicology Program  
OSHA = US Occupational Safety and Health Administration

**Disclaimer**                      Cortez Industries believes that the information contained in this Safety Data Sheet are accurate. The information was collected from the supplier's MSDS and the CHEMINFO database.

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