

## 1 Identification of substance:

- **Product details:**
- **Trade name:** *N-Proponal Maintenance Spray*
- **Product number:** 5760-695
- **Manufacturer/Supplier:**  
*Diagraph MSP, an ITW Company*  
*Marking & Stenciling Products Division*  
*5307 Meadowland Parkway*  
*Marion, IL 62959*
- **Customer Sales & Service:**  
*800-521-3047 USA*  
*618-997-3321*  
*618-997-1766 Fax*
- **email:** *msds@diagraphms.com*
- **Emergency information:**  
*Contact Infotrac: (800) 535 5053 (US only)*  
*International: +1 352 323 3500*

## 2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**  
*71-23-8 1-propanol, (n-propanol)*
- **Identification number(s):** 5760-695
- **Chemical characterization**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Dangerous components:**

71-23-8	1-propanol	50-100%
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## 3 Hazards identification

· **Hazard description:**



*Highly flammable*

· **Information pertaining to particular dangers for man and environment:**

*Highly flammable.*

· **Classification system**

*The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.*

· **NFPA Ratings (scale 0-4)**



*Health = 0*

*Fire = 3*

*Reactivity = 0*

· **HMIS Rating (scale 0-4)**



*Health - 0*

*Flammability - 3*

*Reactivity - 0*

· **Routes of Entry** *Ingestion*

· **Target Organs** *None known*

· **Irritancy** *None known*

· **Sensitizing Capability** *None known*

· **Reproductive Effects** *None known*

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- **Cancer Information** Not known to be carcinogenic.

## 4 First aid measures

- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Wash the affected area with soap and water.
- **After eye contact**  
Rinse opened eye for 15 minutes under running water.  
Seek medical attention.
- **After swallowing**  
If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

## 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

## 7 Handling and storage

- **Handling**
- **Information for safe handling:** Store in cool, dry place in tightly closed receptacles.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Maximum storage temperature:** 120 F (49 C)
- **Minimum storage temperature** 35 F (2 C)

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

### 71-23-8 I-propanol

PEL	500 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 625 mg/m <sup>3</sup> , 250 ppm Long-term value: 500 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 614 mg/m <sup>3</sup> , 250 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm
	NIC-A 3; NIC-delete Skin

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- **Personal protective equipment**
- **General protective and hygienic measures** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves.

- **Eye protection:**



Tightly sealed goggles.

## 9 Physical and chemical properties:

### · General Information

<b>Form:</b>	Liquid
<b>Color:</b>	Transparent
<b>Odor:</b>	Like alcohol

### · Change in condition

<b>Melting point/Melting range:</b>	-126°C (-195°F)
<b>Boiling point/Boiling range:</b>	97°C (207°F)

· <b>Flash point:</b>	25°C (77°F)
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· <b>Auto igniting:</b>	Product is not selfigniting.
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· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
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### · Explosion limits:

<b>Lower:</b>	2.1 Vol %
<b>Upper:</b>	13.7 Vol %

· <b>Vapor pressure at 20°C (68°F):</b>	1.9 hPa (1 mm Hg)
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· <b>Density at 20°C (68°F):</b>	.805 g/cm <sup>3</sup>
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### · Solubility in / Miscibility with

<b>Water:</b>	Fully miscible
<b>Organic solvents:</b>	100.0 %

· <b>VOC's Lbs/Gallon:</b>	6.7
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## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** None

USA

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## 12 Ecological information:

- **General notes:**

Water hazard class 1 (Assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Comply with all Federal, State, and Local regulations regarding disposal.

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **DOT regulations:**



- **Hazard class:** 2.1
- **Identification number:** UN1950
- **Packing group:** -
- **ERG #** 126
- **Proper shipping name (technical name):** Aerosols, Flammable
- **Label** 2.1

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2.1
- **Item:** 5 F
- **UN-Number:** 1950
- **Description of goods:** 1950 Aerosols

- **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **Page:** 2102
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-E,S-D
- **MFAG:** 620
- **Marine pollutant:** No
- **Propper shipping name:** Aerosols, Flammable

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1

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- **Packaging group:** -
- **Propper shipping name:** Aerosols, Flammable

## 15 Regulations

- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

Substance is not listed.

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

- **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

- **MAK (German Maximum Workplace Concentration)**

Substance is not listed.

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

Substance is not listed.

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

Substance is not listed.

- **Product related hazard information:**

The product has been classified and marked in accordance with directives on hazardous materials.

- **Hazard symbols:**

Highly flammable

- **Risk phrases:**

Highly flammable.

- **Safety phrases:**

Keep out of the reach of children.

Keep container tightly closed and in a well-ventilated place.

Keep away from sources of ignition - No smoking.

If swallowed, seek medical advice immediately and show this container or label.

- **National regulations**

- **Water hazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.

- **Other regulations, limitations and prohibitive regulations**

- **OSHA Regulations**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29 CFR 1910.): Not listed

- **Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313:**

This product does not contain chemicals listed as toxic chemicals at levels which require reporting under SARA Title III Section 313.

Substance is not listed.

- **CONEG:**

This product has not been tested for heavy metals covered under the various CONEG laws. However, raw materials used to make this product do not contain mercury, lead, cadmium, or hexavalent chromium and none are added during manufacture.

- **Toxic Substances Control Act TSCA Status:**

All components of this product are listed in the EPA's Inventory of Chemical Substances as required under the Toxic Substances Control Act (TSCA).

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

Substance is not listed.

USA

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**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.*

· **Department issuing MSDS:** Safety / Environmental

· **MSDS Created By:**

Peter Gimse

File 450

· **Revision Information (All previous revisions obsolete):**

*This Revision: 06/29/2007 Changed the first aid measures if swallowed.*

*Previous Revs: 10/18/2005 Initial Release.*

USA