

Safety Data Sheet

In accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015

Date of issue : 05/29/2009

Revision date : 04/02/2022

Revision No : 1.3

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### SECTION 1 : Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product Name : DTI03-01LM 1.2. Relevant identified uses of the substance or mixture and uses advised against **Relevant identified uses** : Water-based ink for inkjet printer. **Uses advised against** : Do not use for the other application. Restricted to professional users 1.3. Details of the supplier of the safety data sheet : InkTec Co.,Ltd. **Company Name** Address : #108, Neungan-ro, Danwon-gu, Ansan-city, Gyeonggi-do, 425-839, Korea Tel : +82-31-494-0001 : +82-31-492-2041 Fax Website : http://kr.inktec.com/ 1.4. **Emergency telephone number** Emergency number : Centro Antiveleni (Poisons Centre) : Dipartimento di Tossicologia Clinica Universita Cattolica del Sacro Cuore Roma **Emergency Telephone Number** : +39 06 305 4343

<b>SECTION 2 : Hazards identification</b>	
2.1. Classification of the substance	or mixture
Classification according to	: Acute toxicity,oral : Hazard category 4
Regulation (EC) No 1272/2008 (CLP)	Serious eye damage/eye irritation : Hazard category 2A
Classification according to	: Xn; R22 Xi; R36
Directive 1999/45/EC (DPD)	
2.2. Label elements	
Labeling according to	
Regulation (EC) No 1272/2008 (CLP)	
Hazard symbols	
	$\mathbf{A}$
	GHS07
	61307
Signal word	: Warning
-	
Hazard statements	: H302 : Harmful if swallowed
	H319 : Causes serious eye irritation
Precautionary statements	
Precautionary	: P264 : Wash thoroughly after handling.
	: P270 : Do no eat, drink or smoke when using this product.
Countermonouro	: P280 : Wear protective gloves/protective clothing/eye protection/face protection.
Countermeasure	: P301+P312 : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. : P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	: P312 : Call a POISON CENTER or doctor/physician if you feel unwell.
	: P330 : Rinse mouth.
	: P337+P313 : If eye irritation persists: Get medical advice/attention.
Storage	: No information available.
Disposal	: P501 : Dispose of contents/container to
	.in accordance with local/regional/national/international regulation(to be specified).



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### **Other hazards** 2.3. Other hazards

: No information available

### **SECTION 3 : Composition/information on ingredients**

### 3.1. Substance

Substances

: No information available

#### 3.2. **Mixture**

			EC No.	EU Classification				
	0/ <b>D</b>	CAS No.			CLP			
Ingredients	% By weight			67/548/ EEC (DSD)	Hazard class and category codes	Hazard statement codes	Pictogram/ Signal word codes	Note
Magenta Disperse Dye	1 < C < 7	Proprietary	Proprietary					
Ethane-1,2-diol	10 < C < 20	107-21-1	203-473-3	Xn; R22	Acute Tox. 4	H302	GHS07	
D-Sorbitol	10 < C < 20	50-70-4	200-061-5					
DL-hexane-1,2-diol	1 < C < 5	6920-22-5	230-029-6	Xi, R36	Eye Irrit. 2	H319	GHS07	
Water	58 < C < 68	7732-18-5	231-791-2					

\* Substance is classified in terms of Regulation (EC) No. 1272/2008 Annex VI.

\* Substance with workplace exposure limits.

OFOTION 4

\* Substance is included in the Candidate List of Substances of Very High Concern for Authorisation.

SECTION 4 : First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: If breathing is difficult, give oxygen.
	: Give artificial respiration if not breathing, and get immediate medical attention.
	: If the person develops a symptom, move him to an area where fresh air is available.
	: If the person develops a side effect, more him to an area free of contamination.
	: Get medical attention.
First-aid measures after skin contact	: Get medical attention, if needed.
	: Wash skin with soap and plenty of water for least 15 minutes
	: Thoroughly clean and dry contaminated clothing and shoes before reuse.
	: Remove contaminated clothing and shoes and wash skin with water and soap for at least 15 minutes.
	: If skin is irritated or shows other symptoms, get medical attention.
First-aid measures after eye contact	: While lifting upper eyelid, flush eyes with plenty of water for at least 15 minutes
	and then get immediate medical attention.
First-aid measures after ingestion	: Get medical attention.
	: Never make an unconscious person vomit or drink fluids.
	: If vomiting occurs, keep head lower than hips to help prevent aspiration.
	: If person is unconscious, turn head to side.



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: If the person has swallowed a large quantity, let him get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2 and/or in section 11.

Indication of any immediate medical attention and special treatment needed 4.3.

Other Information : Treat symptomatically.

<b>SECTION 5 : Firefighting measur</b>	es
5.1. Extinguishing media	
Suitable extinguishing media	: Powder fire extinguishing agent.
	: Spray stream.
	: Carbon dioxide
	: General foam extinguishing agent
	: Alcohol resistant foam extinguishing agent
	: Water spray.
Unsuitable extinguishing media	: No data available.
5.2. Special hazards arising from	n the substance or mixture
Fire and explosion hazards	: There's a small change of fire.
	: A mixture of vapor and air can be explosive at above a certain ignition point
	: Vapor or gas can spread instantly after being ignited from a distanced ignition point.
	: Vapor is heavier than air.
	: Halogen gas can be produced when it contacts metal
	: May develop irritating, corrosive, or toxic gases by fire.
Hazardous combustion products	: Discharge of toxic smoke, like carbon oxide, sulfur compounds, acrolein and nitroxide.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fure/heat : keep upwind.
	: Exposure to fure/heat : have neighbourhood close doors and windows
	: Move containers from fire area if it can be done without risk.
	: Do not approach both ends of the tank
	: Withdraw immediately in case of rising sound from safety devices due to the fire or discoloration
	discoloration of tank.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
	: Cool container with flooding quantities of water until well after fire is out.
	: When there's a fire in shipping and unloading or storage area : Cool container with flooding
	: quantities of water until well after fire is out by using unmanned hose holders or monitor nozzles.
	: If that is not possible, consider following preventive measures
	: Keep unnecessary people away, isolate hazard area and deny entry.
	: And allow the fire to burn itself out.
	: Flood with fine water spray.
	: Do not scatter spilled material with high-pressure water streams
	: Cool containers with water spray until well after the fire is out.
	: Stay upwind and keep out of low areas.
	: Dike for later disposal.
	: Use extinguishing agent appropriate for surrounding fire. : Flood with fine water spray.
	: The most effect measures would be removing fuel source and suffocating by blocking air supply.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
	: Fire involving tank, rail, car, or tank truck : Evacuation for 0.8Km (1/2 mile) in all directions.
	: Shut off the source of the leakage before trying to extinguish fire.



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- : Avoid inhalation of material or combustion by-products.
- : Dike for later disposal.

C.4 Democracy in a section	ise measures			
	rotective equipment and emergency procedures			
For non-emergency personnel	Olever Destablish shall be all the set and the set of t			
Protective equipment	: Gloves, Protective clothing, see "Material-Handling" to select protective clothing			
Emergency procedures	: Evacuate unnecessary personnel.			
For emergency responders				
Protective equipment	: Equip cleanup crew with proper protection.			
Emergency procedures	: Ventilate area			
	: Absorb with paper.			
	: Ventilate to eliminate all vapors, and burn papers.			
	: Eliminate all ignition sources.			
	: Absorb with dry earth, sand or other non-combustible material, and place in a container.			
	: Ventilate a closed area before entering.			
	: Use water spray to reduce vapors.			
	: Store in an area separated from water supply and sewer			
	: Check shipping information and included documents, and contact related agencies and			
	: companies to find detailed information on the material.			
	: Keep unnecessary people away, isolate hazard area and deny entry.			
	: Keep away from heat, fire, flame and other sources of ignition			
	: Stop leak if without risk.			
	: Deny entry to an area within 25~50m radius from leak, and keep unnecessary people away			
	: Stop leak, if it can be done without risk to worker.			
	: Stay upwind.			
	: Place leaked material in an appropriate container to dispose.			
6.2. Environmental precaution	ons			
Environmental precautions	: Prevent entry to sewers and public waters. Store in an area separated from water supply and sewe			
	: Notify authorities if liquid enters sewers or public waters Avoid release to the environment.			
3.3. Methods and material fo	or containment and cleaning up			
Cleaning Methods	: Collect spillage. Store away from other materials.			
	: Place leaked material in an appropriate container to dispose.			
	: Absorb with dry earth, sand or other non-combustible material.			
	: Prevent entry into waterways, sewers, basements or confined areas.			
	: Stay upwind and keep out of low areas.			
	: Dike for later disposal.			
Containment	: Keep unnecessary people away, isolate hazard area and deny entry.			
	: Do not touch a damaged container or spilled material without wearing proper protective gears.			
	: Notify the central government and local independent commission for discharge of amounts			
	: greater than or equal to the standard			
	: Keep unnecessary people away, isolate hazard area and deny entry.			
A Poterance to other cost				
	ions			
6.4. Reference to other sections	ions : See Section 7 for information on safe handling.			
	ions			



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7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking
	: Do not press, cut, weld, solder, join, perforate, grind, or heat.
	: An empty container containing residues (liquid, steam) can be dangerous.
	: Store by closing a container.
	: Store in a closed container.
	: Do not inhale dust, steam, mist or gas.
	: Minimize development and accumulation of dust.
	: Use spark-proof tools and explosion-proof equipment.
	: Do not inhale or ingest.
	: Wash hands before eating.
	: Remove contaminated clothing and wash before reuse.
	: Perform proper ventilation.
	: Wash thoroughly after handling.
	: Use only in a well ventilated area.
	:Handle according to current laws and regulations. :Do not get in eyes, on skin and clothing.
	: Avoid flame, sparks, static electricity and other ignition sources.
7.2. Conditions for safe storage, in	
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Incompatible materials. Keep container closed when not in use.
	: Keep container closed when not in use.
	: Store and handle in accordance with all current regulations and standards.
Incompatible products	: Avoid contacting strong oxidizer.
Incompatible materials	: Sources of ignition. Direct sunlight.
	: Keep separated from incompatible substances
Heat and ignition sources	: Keep substance away from heat source
-	: Keep away from sources of ignition.
Prohibitions on mixed storage	: Keep substance away from oxidizing agents
ů	: Avoid contacting halogen or halogen compounds.
Storage area	: Store in a cool, dry place.
	: Store at ambient temperature
Special rules on packing	: Special requirements closing, clean, correctly labelled, meet the legal requirements.
opoolal faloo on paolang	: Secure fragile packagings in solid container.
Packaging materials	: Suitable material : No data available
	: Material to avoid : No data available
7.3. Specific end use(s)	

### Specific end use(s)

: No data available

### SECTION 8 : Exposure controls/personal protection

8.1.	Control paramet	ters					
	Ingredients	CAS No.	Workplace exposure limit				
			Long-term exposure limit (8-hour TWA reference period)		Short-term exposure limit (15-minute reference period)		Notation
			ppm	mg/m³	ppm	mg/m³	
	-	-	-	-	-	-	-

\* Workplace exposure limits for substances contained in the mixture



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8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Protective gloves are not required.
	: Wear appropriate chemical resistant gloves.
Eye protection	: Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
	: Wear splash-proof eye goggles.
	: Wear splash resistant safety goggles with a face shield.
Respiratory protection	: Consider warning properties before use.
	: None required under normal operating conditions.
	: None required under normal operating conditions.
	: Respiratory protection is ranked in order from minimum to maximum.
	: Wear respiratory protection that has received the Korea Occupational Safety and
	Health Agency's black "Safety" mark
Body protection	: Body protection clothing is not required
	: Wear appropriate chemical resistant clothing.
Environmental exposure controls	: Do not allow to enter sewers, surface and ground water
Other information	: Do not eat, drink or smoke during use.

### **SECTION 9 : Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Properties	Data	Properties	Data
Appearance	Magenta Liquid	Upper/lower flammability or explosive limits	No data available
Odor	Odorless or mild odor	Vapor pressure	No data available
Odor threshold	No data available	Vapor density	Greater than 1 (air=1)
рН	9.5 ~ 10.5	Relative density	1.06 at 68°F / 20℃
Melting point/ Freezing point	Less than 32°F / 0℃	Solubility in water	Miscible
Boiling point	Greater than 212°F / 100 $^\circ\!\!\!\mathrm{C}$	Partition coefficient n-octanol/water	No data available
Flash point	Greater than 230°F / 110 $^\circ\!\!\!\mathrm{C}$	Auto ignition temperature	No data available
Evaporation rate	No data available	Decomposition temperature	No data available
Flammability (Solid/Gas)	No data available	Viscosity	2.9 ~ 3.5 cP

9.2. **Other information** 

Other information

: No data available

SECT	ON 10 : Stability and reactivity	
10.1.	Reactivity	
Reactivi	ty	: No data available
10.2.	Chemical stability	
Chemica	al stability	<ul> <li>Do not store for an extended period, or store or use in an area in direct</li> <li>contact with air and sun and above room temperature.</li> <li>May form explosive peroxides.</li> <li>Stable at room temperature and atmospheric pressure.</li> </ul>
10.3.	Possibility of hazardous reaction	15
Possibili	ty of hazardous reactions	<ul><li>Stable at room temperature and atmospheric pressure.</li><li>Polymerization will not occur.</li></ul>



# **DTI03-01LM**

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10.4.         Conditions to avoid           Conditions to avoid         Conditions to avoid	: Keep separated fr	s, sparks and other sources of ignitic rom incompatible substances. osed to heat, it may rupture or explo		
10.5. Incompatible materials	S			
Incompatible materials		ng agents, metallic oxide, peroxides neral salt.	reducing agents, halogen,	
10.6. Hazardous decompos	ition products			

Hazardous decomposition products

: Produce carbon oxide and sulfur compounds during thermal decomposition. : Variety of organic matters, cyanide compounds, ammonia, nitrogen oxide.

SECTION 11 : Toxicological information
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#### 11.1. Information on toxicological effects

Acute toxicity :	Not classified
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Ingredients	CAS No.	Oral	Eye	Inhalation	
Ethane-1,2-diol	107-21-1	LD50 4700 mg/kg Rat	No data available	No data available	
D-Sorbitol	50-70-4	LD50 15900 mg/kg Rat	No data available	No data available	
DL-hexane-1,2-diol	6920-22-5	LD50 6166 mg/kg Rat	No data available	No data available	
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	<ul> <li>Skin rabbit, according to skin Irritation test.</li> <li>According to rabbit tests, it can develop corneal opacity with pain to human, .</li> <li>but it was recovered in a few days.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>				
Reproductive toxicity	: Not class	: Not classified			
Specific target organ toxicity (STOT-single exposure) Specific target organ toxicity (STOT-repeated exposure) Aspiration hazard	<ul> <li>It develops lethargy, dizziness, dyspnea, metabolic acidosis, hematuria, or liver disease</li> <li>When it is inhaled, it irritates nose and neck</li> <li>It develops repetive respitatory irritation</li> <li>According to animal tests, inhalation can cause toxic effects on blood.</li> <li>Not classified</li> </ul>				
Potential Adverse human health effects Symptoms	otential Adverse human health effects and : Not classified ymptoms				
	SECTION 12 : Ecological information				
12.1. Toxicity Toxicity	: No data a	: No data available			



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12.4. Mobility in soil	
Mobility in soil	: No data available
12.5. Results of PBT and vPvB as	ssessment
Results of PBT and vPvB assessment	: No data available
12.6. Other adverse effects	
Other adverse effects	: No data available
SECTION 13 : Disposal considera	ations
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations
	: Dispose of. contents/container to hazardous or special waste collection point, in accordance with loca
	: regional, national and/or international regulation,
	: Please dispose by using one of the following methods
	: 1. Neutralize, hydrolyze, oxidize, or restore it.
	: 2. Incinerate or melt it in high temperature
	: 3.Solidify it.
Ecology - waste materials	: Avoid release to the environment.
	: Consider all cautions specified in all applicable regulations of Waste Management Law
SECTION 14 : Transport informa	tion
14.1. UN number	
LINI number	

14.1.	UN number	
UN num	ber	: No data available
14.2.	UN proper shipping name	
UN prop	er shipping name	: No data available
14.3.	Transport hazard class(es)	
Transpo	rt hazard class(es)	: No data available
14.4.	Packing group	
Packing	group	: No data available
14.5.	Environmental hazards	
Environn	nental hazards	: No data available
14.6.	Special precautions for user	
Other ad	verse effects	: No data available
14.7.	Transport in bulk according to Ar	nnex II of MARPOL 73/78 and the IBC Code
•	rt in bulk according to Annex II POL 73/78 and the IBC Code	: No data available
SECTI	ON 15 : Regulatory information	
45.4	Optoty, hoolth and any incompanial	nonvelations describes an active for the autotance or mixture

15.1. Oalety, nearth and environmen	tal regulations/regislation specific for the substance of mixture
EU Regulations	
Classification according to	: The substances in the mixture are not subject to Authorisation under Title VII or
Regulation (EC) No 1272/2008 (CLP)	Restrictions under Title VIII of Regulation (EC) No. 1907/2006.
	: COMMISSION REGULATION (EU) No 830/2015 of 28 May 2015
	amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on
	the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Candidate List of Substances of Very High	: Not classified
Concern for Authorisation (Annex XVII)	: Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to
	reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2)



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ation list (Annex XIV) cation according to e 1999/45/EC (DPD) I Regulations	Carcinog : Without packagir market ti	gen category 1A (Table 3.1)/ carcinogen categore category 1B (Table 3.1)/ carcinogen categore categore categore categore categore categore and labelling of substances and mixtures, shat the packaging of such substances and mixing 'Restricted to professional users'.	ory 2 (Table 3.2) listed in A munity provisions relating suppliers shall ensure befo	Appendix 2 to the classification, pre the placing on the
ea Industrial Safety and Heal Ingredients	th Act : CAS No.	Reg	Ilations	
Ethane-1,2-diol	107-21-1	Work environment Special health diagnosis mate	measuring materials	
procement Decree of nemicals Control Act ety Control of Dangerous Sub	: No data a		Ŭ	
Ingredients	CAS No.	Regu	llations	
Ethane-1,2-diol	107-21-1	Class 4 Group 3 pe	troleum, soluble 4000ł	
DL-hexane-1,2-diol	6920-22-5	Class 4 Group 3 pe	troleum, soluble 4000ł	
ste Management Law				
Ingredients	CAS No.	Regu	llations	
Ethane-1,2-diol	107-21-1	Authori	zed waste	
gulations	: No data a	available		
Chemical safety asses				
al safety assessment	: Chemical	safety assessment has not been carried out	for this mixture	
ON 16 : Other informa	ition			
ssue evision and Revision data ons for the training	: Product h	2009 ] 1.3 [Date] 12. April, 2019 nandling instruction shall be included into the e	•	•

Authorisa

### Classifica

### Directive

### National

### Korea

The Korea

Ingredients	CAS No.	Regulations
Ethane-1,2-diol	107-21-1	Work environment measuring materials Special health diagnosis material (Inspection cycle: 12 months) Exposure limits for chemical and biological materials

The Enfor

Toxic Che

The Safet

Ingredients	CAS No.	Regulations
Ethane-1,2-diol	107-21-1	Class 4 Group 3 petroleum, soluble 4000ℓ
DL-hexane-1,2-diol	6920-22-5	Class 4 Group 3 petroleum, soluble 4000

The Wast

Recommended restrictions on use

(i.e. non-statutory recommendations by supplier)

-				
Ingredients	CAS No.	Regulations		
Ethane-1,2-diol	107-21-1	Authorized waste		
Other regulations	: No data available			
15.2. Chemical safety assessment				
Chemical safety assessment	: Chemical safety assessment has not been carried out for this mixture			
SECTION 16 : Other information				
Data of issue : 29.May. 2009				
Latest Revision and Revision data	: [Revision	: [Revision] 1.3 [Date] 12. April, 2019		
Instructions for the training	: Product handling instruction shall be included into the educational system about the safety work			

at the workplace

technical information about product

:

(Initial training, training at the workplace, repeated training) according to specific conditions

Mixture should not be used for any other purpose than for which is appointed (point 1.2).

Because of the fact that specific conditions of use of mixture are out of supplier's control, It is responsibility of the user to adjust the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and it cannot be considered as



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Purpose of SDS	: Purpose of this SDS is to provide relevant information for users of product to ensure proper handling
	and control of risks/hazards.
Classification according to	: National Fire Protection Association
NFPA Rating	

Ingredients	CAS No.	NFPA Classification	NFPA Classification
		NFPA 704 Diamond	
		Health hazards	2 (Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury)
Ethane-1,2-diol	ane-1,2-diol 107-21-1	Flammability	1 (Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur (e.g. <u>mineral oil</u> , <u>ammonia</u> ). Includes some finely divided suspended solids that do not require heating before ignition can occur)
		Instability/Reactivity	0 (Normally stable, even under fire exposure conditions, and is not reactive with water)
		Special notice	No data available

Ingredients	CAS No.	NFPA Classification	NFPA Classification
D-Sorbitol	50-70-4	NFPA 704 Diamond	
		Health hazards	1 (Exposure would cause irritation with only minor residual injury)
		Flammability	1 (Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur (e.g. <u>mineral oil</u> , <u>ammonia</u> ). Includes some finely divided suspended solids that do not require heating before ignition can occur)
		Instability/Reactivity	0 (Normally stable, even under fire exposure conditions, and is not reactive with water)
		Special notice	No data available



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Ingredients	CAS No.	NFPA Classification	NFPA Classification
DL-hexane-1,2-diol	6920-22-5	NFPA 704 Diamond	
		Health hazards	0 (Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials)
		Flammability	2 (Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur (e.g. <u>diesel fuel</u> , paper, <u>sulfur</u> ) and multiple finely divided suspended solids that do not require heating before ignition can occur.)
		Instability/Reactivity	0 (Normally stable, even under fire exposure conditions, and is not reactive with water)
		Special notice	No data available