

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

Product form : Mixture
Product name : #S039 Mesh Lubricant
Product code : #S039
Product group : Commercial product

No additional information available

Details of the supplier of the safety data sheet

TW Graphics Group
3323 S. Malt Avenue
Commerce, CA 90040
T 323-721-1400
www.twgraphics.com

Emergency telephone number

Emergency number : 800-424-9300
For Chemical Emergency, Spill, Leak, Fire, Exposure, or
Accident, call
CHEMTREC – Day or Night

SECTION 2: Hazards identification**GHS Classification**

Eye irritation : Category 2B
Specific target organ toxicity : Category 2 (Central nervous system, Kidney)
Repeated exposure

GHS-Label element

Hazard pictograms

**Signal word**

: Warning

Hazard statements

: H320 Cause eye irritation
H373 May cause damage to organs through prolonged or
repeated exposure.

Precautionary statements

: **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/vapours/ spray.
P264 Wash skin thoroughly after handling.

Response:

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P305 + P351 + P338 IF IN EYES: : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Emergency Overview

CAUTION!	
Appearance	liquid
Colour	Clear, colourless
Odour	characteristic, slight

SECTION 3: Composition/information on ingredients

Substance / Mixture : Substance

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
25265-71-8	Dipropylene glycol	50
7732-18-5	Water	50

Molecular formula : C6-H14-O3

SECTION 4: First aid measures

- General advice** : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled** : Consult a physician after significant exposure.
If unconscious place in recovery position and seek medical advice..
- In case of skin contact** : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact** : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed** : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5: Firefighting measures

- Suitable extinguishing Media** : Carbon dioxide (CO2)
Dry chemical
Water spray
Foam
- Unsuitable extinguishing Media** : High volume water jet
- Hazardous combustion Products** : Carbon oxides
- Specific extinguishing Methods** : Use a water spray to cool fully closed containers.
- Further information** : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

NFPA Flammable and Combustible Liquids Classification:

Combustible Liquid Class IIIB

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well ventilated place. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of vapour formation use a respirator with an approved filter.

Hand protection : The suitability for a specific workplace should be discussed

Remarks	with the producers of the protective gloves.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	: impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Appearance	: Liquid
Colour	: clear colourless
Odour	: characteristic, slight
Odour threshold	: No data available
pH	: No data available
Freezing Point (Melting point/freezing point)	: -60 - -32 °C (-76 - -26 °F)
Boiling Point (Boiling point/boiling range)	: 222 - 236 °C (432 - 457 °F)
Flash point	: 121 °C (250 °F)
Evaporation rate	: 0.005 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 12.6 %(V)
Lower explosion limit	: 2.2 %(V)
Vapour pressure	: 0.0097 mmHg @ 25 °C (77 °F)
Relative vapour density	: 4.6 @ 20 °C (68 °F) (Air = 1.0)
Relative density	: 1.02 - 1.03 @ 25 °C (77 °F) Reference substance: (water = 1)

Density	: Approximate 1.03 g/cm ³ @ 25 °C (77 °F)
Bulk density	: No data available
Solubility(ies) Water solubility	: Completely miscible
Solubility in other solvents	: No data available
Partition coefficient noctanol/water	: log Pow: 0.67
Auto-ignition temperature	: 310 – 337 °CAuto-flammability
Thermal decomposition	: No data available
Viscosity Viscosity, dynamic	: 75 mPa.s @ 25 °C (77 °F)
Viscosity, kinematic	: 118 mm ² /s @ 20 °C (68 °F)

SECTION 10: Stability and reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous Reactions	: Hazardous polymerisation does not occur. No hazards to be specially mentioned.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Acids Bases Metals Oxidizing agents Reducing agents metal salts
Hazardous decomposition products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

Acute toxicity

Components: 25265-71-8:



Acute oral toxicity : LD50 (rat, male and female): > 5,000 mg/kg
Method: Standard Acute

Acute inhalation toxicity : LC50 (rat, male and female): > 2.34 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Standard Acute
Assessment: The component/mixture is low toxic after short term inhalation.

Acute dermal toxicity LD50 (rabbit, male and female): > 5,010 mg/kg
Method: Standard Acute

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

25265-71-8:

Species: rabbit

Result: Mild skin irritation

Serious eye damage/eye irritation

Product:

Result: Mild eye irritation

Components:

25265-71-8:

Species: rabbit

Result: Mild eye irritation

Respiratory or skin sensitisation

Components:

25265-71-8:

Test Type: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

25265-71-8:

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay
Test species: Mouse lymphoma cells
Metabolic activation: with and without metabolic activation

	Result: negative GLP: yes
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: mouse (male) Cell type: Bone marrow Application Route: Oral Exposure time: 2 d Dose: 0, 500, 1000, 2000 mg/kg bw Method: OECD Test Guideline 474 Result: negative GLP: yes
Germ cell mutagenicity - Assessment	: Did not show carcinogenic or mutagenic effects in animal experiments

Carcinogenicity

Components:

25265-71-8:

Species: mouse, (male and female)
Application Route: Oral
Exposure time: 105 wks
Dose: 0, 10000, 20000, 40000 ppm
NOAEL: 40,000 PPM

Result: did not display carcinogenic properties
GLP: yes

Carcinogenicity Assessment : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Components:

25265-71-8:

Effects on fertility : Species: mouse, male and female
Application Route: Oral
Dose: 0, 1820, 4800, 10100 mg/kg bw
General Toxicity - Parent: NOAEL: 10,100 mg/kg body weight
General Toxicity F1: NOAEL: 10,100 mg/kg body weight
Fertility: NOAEL: 10,100 mg/kg body weight
Result: No reproductive effects.
Remarks: Information given is based on data obtained from similar substances.

Effects on foeta Development : Species: rat
Application Route: Oral
Dose: 0, 800, 2000, 5000 mg/kg bw
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: 800 mg/kg body



weight
Teratogenicity: NOAEL: 5,000 mg/kg body weight
Developmental Toxicity: NOAEL: 5,000 mg/kg body weight
Symptoms: Maternal toxicity
Result: No teratogenic effects.

Reproductive toxicity - Assessment : No toxicity to reproduction
Did not show teratogenic effects in animal experiments..

STOT - single exposure

Product: No data available

Components:

25265-71-8: No data available

STOT - repeated exposure

Product: No data available

Components:

25265-71-8:

Exposure routes:	Target Organs:	Assessment:	Remarks:
	Central nervous system, Kidney	May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.	

Repeated dose toxicity

Components:

25265-71-8:

Species: rat, male and female
NOAEL: 10000
Application Route: Oral
Exposure time: 105 wks
Number of exposures: Daily
Dose: 0, 2500, 10000, 40000 ppm
GLP: yes
Symptoms: Liver effects, nasal symptoms

Aspiration toxicity

Product:

May be harmful if swallowed and enters airways.

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Components:**25265-71-8:**

May be harmful if swallowed and enters airways

Further information**Product:**

Remarks: No data available

SECTION 12: Ecological information**Ecotoxicity****Components:****25265-71-8:**

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
Remarks: Information given is based on data obtained from similar substances.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): >100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae : EC50 (Desmodesmus subspicatus): > 100 mg/l
End point: Biomass
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to bacteria : EC 50 (Bacteria): > 5,000 mg/l
End point: Growth rate
Exposure time: 16 h
Test Type: Growth inhibition
GLP:

Persistence and degradability**Components:****25265-71-8:**

- Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 60 %



Exposure time: 28 d

Bioaccumulative potential

Components:

25265-71-8:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: noctanol/
water : log Pow: -1.07

Mobility in soil

Components:

25265-71-8:

Stability in soil : Remarks: Not expected to adsorb on soil.

Other adverse effects
No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection
of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks This product neither contains, nor was manufactured
with a Class I or Class II ODS as defined by the U.S.
Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological : No data available
Information

SECTION 13: Disposal considerations

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local,
state and federal regulations.
For assistance with your waste management needs -
Including disposal, recycling and waste stream reduction, contact
TW Graphics, at 800-734-1704.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

IATA (International Air Transport Association): Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

DOT (Department of Transportation): Not regulated as a dangerous good

SECTION 15: Regulatory information

OSHA Hazards : Mild skin irritant, Mild eye irritant

WHMIS Classification : D1B: Toxic Material Causing Immediate and Serious Toxic Effects
D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

25265-71-8	Dipropylene glycol	50 %
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Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.\

Pennsylvania Right To Know

25265-71-8 Dipropylene glycol 50 %

New Jersey Right To Know

25265-71-8 Dipropylene glycol 50 %

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

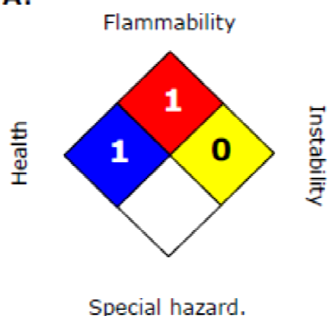
The components of this product are reported in the following inventories:

Switzerland. New notified substances and declared preparations	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)
United States TSCA Inventory	:	y (positive listing) (On TSCA Inventory)
Canadian Domestic Substances List (DSL)	:	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ISHL - Inventory of Chemical Substances (METI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)

Korea. Korean Existing Chemicals Inventory (KECI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	y (positive listing) (On the inventory, or in compliance with the inventory)

SECTION 16: Other information

NFPA:



HMIS III:

HEALTH	1*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by TW Graphics Group EHS Product Safety Department (1-800-424-9300).

Legacy SDS: R0003556

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency

NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRINT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal T	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.