

# SAFETY DATA SHEET

Prepared on 08/12/2020

## 1: Identification of the substance/mixture and of the company / undertaking

### 1.1: Product identifier

**Product Name:** Lubricant/Thinner For Water-Soluble Diamond Compounds

**Product Number:** 8251290, 8251310, 8251315, 8251320

**CAS No.** See Section 3

**Product Description** Water Soluble – Color varies with micron size

### 1.2: Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Industrial abrasive/slurry/lapping compound
Uses advised against	None Known

### 1.3: Details of the supplier of the safety data sheet

#### Supplier Information

**Paul H. Gesswein & Co., Inc.**  
 201 Hancock Ave., Bridgeport, CT 06605  
 Phone: 203-366-5400  
 FAX: 203-366-3953  
 email: info@gesswein.com  
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**Hazard Statement(s):**

**H316** – Causes mild skin irritation  
**H320** – May cause eye irritation

**2.2: GHS Label elements, including precautionary statements (continued)****Precautionary statement(s):**

**P202** – Do not handle until all safety precautions have been read and understood.

**P264** – Wash hands thoroughly after handling.

**P280** – Wear appropriate personal protective equipment when handling product. Including eye protection (safety glasses w/side shields) and impervious gloves (nitrile).

**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.

**P501** – Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**3: Composition / information on ingredients****3.1: Substances**

<b>Ingredient Name</b>	<b>Identifier</b>	<b>%</b>	<b>Classifications</b>
Petroleum distillates, hydrotreated heavy naphthenic	CAS: 64742-52-5 EC #: 265-52-5	5-15%	H304 - Aspiration hazard
tris(N-hydroxyethyl) hexahydrotriazine	CAS: 4719-04-4 EC #: 225-208-0	<3%	H302 – Acute Tox 4 H312 - Acute Tox 4 H314 – Skin Corr 1B H317 – Sens skin 1
Ethanolamine	CAS: 141-43-5 EC #:	<3%	H227 – Flam. Liq 4 H302 – Acute Tox 4 H314 – Skin Corr 1B H318 – Eye Dam 1 H335 – STOT SE 3 H401 – Aquatic acute 2 H412 – Aquatic chronic 3
Ethanol, 2-[(2-aminoethyl)amino]-	CAS: 111-41-1 EC #: 203-867-5	<0.5%	H314 – Skin Corr 1 H317 – Sens skin 1 H318 – Eye Dam 1 H360 – Repro. 1B
Proprietary Glycol Blend	NA	48-75%	Not a hazardous substance or mixture

Proprietary ingredients (non-hazardous)	NA	<10%	Not a hazardous substance or mixture
Occupational exposure limits, if available, can be found in <b>Section 8</b> of this document.			

## 4: First aid measures

### 4.1: Description of first aid measures

<b>Eyes</b>	Immediately flush eyes with plenty of water lifting lower and upper eyelids occasionally, until material is removed. After initial flushing, remove any contact lenses if worn. Get medical attention if irritation persists.
<b>Inhalation</b>	If symptoms are experienced remove victim from source of contamination or move victim to fresh air and obtain medical advice.
<b>Ingestion</b>	No ingestion hazard is expected under normal industrial use. If a large quantity is ingested, seek immediate medical attention. Do not induce vomiting.
<b>Skin</b>	Remove contaminated clothing. Immediately wash with soap and water and rinse thoroughly. Seek medical attention if required.

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

Signs and symptoms of exposure to this material through ingestion, breathing, eye contact and/or skin contact may include irritation.

### 4.3: Indication of any immediate medical attention and special treatment needed

None Known

## 5: Firefighting measures

### 5.1: Extinguishing media

Product is non-flammable. Suitable Extinguishing Media: Water, foam, sand, powder, carbon dioxide (CO<sub>2</sub>). Use water spray to cool surfaces exposed to fire to disperse vapors and to protect personnel attempting to stop any leakage.

### 5.2: Special hazards arising from the substance or mixture

Burning may produce smoke, carbon monoxide, carbon dioxide, and unburned hydrocarbons.

### 5.3: Advice for firefighters

Use a self-contained breathing apparatus and full protection gear. Dike and collect water used to fight fire if possible.

## 6: Accidental release measures

### 6.1: Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Minimize formation and accumulation of dust. Use personal protective equipment as specified in Section 8 of this SDS. Sweep or gather up material and place in proper container for disposal or recovery.

### 6.2: Environmental precautions

None Known

### 6.3: Methods and material for containment and cleaning up

**Containment:** If material is spilled or released, cordon off area. Persons not wearing appropriate protective equipment should be excluded from spill area until clean-up has been completed.

**Clean-Up:** Wear appropriate personal protective equipment as specified in Section 8. Collect spilled material and clean up any residue material by vacuuming or wet sweeping to reduce dust generation and place into an appropriate container suitable for proper disposal in accordance with local, regional, national, and/or international regulations.

### 6.4: Reference to other sections

See sections 8 – Exposure Controls / Personal Protection and Section 13 – Disposal Considerations

## 7: Handling and storage

### 7.1: Precautions for safe handling

Wear appropriate protective gloves and safety glasses with side shields. Avoid direct skin contact or breathing of material. Use only in well-ventilated area and be sure to wash hands thoroughly after handling material.

### 7.2: Conditions for safe storage, including any incompatibilities

Store in a tightly closed container in a secure, well-ventilated area. Store under dry and cool conditions, away from sources of ignition and away from incompatible materials (acids and oxidizing agents) and direct sunlight.

### 7.3: Specific end use(s)

Industrial lube, slurry and/or lapping compound

## 8: Exposure Controls / Personal Protection

### 8.1: Control parameters

Component Name	OSHA PEL	ACGIH TLV
Proprietary Glycol Blend	N/A	N/A
tris(N-hydroxyethyl) hexahydrotriazine	N/A	N/A
Ethanol, 2-[(2-aminoethyl)amino]-	N/A	N/A
Naphtha (Petroleum), Hydrotreated heavy	500 ppm	None Established
Ethanolamine	3 ppm; 6 mg/m <sup>3</sup>	STEL - 6 ppm, 15 mg/m <sup>3</sup> TWA - 3 ppm, 7.5 mg/m <sup>3</sup>

\* Respirable fraction      \*\* Total Particulate (Nuisance Dust)

#### DNELs

No DNEL information is available for the K-700 mixture.

#### PNECs

No PNEC information is available for the K-700 mixture.

### 8.2: Exposure controls

#### Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls (wet grinding) to maintain airborne levels below identified exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

<b>Personal Protective Equipment:</b>	
<b>Eye / face protection</b>	Safety glasses with side shields or safety goggles should be worn when working with this material.
<b>Skin protection</b>	Wear appropriate clothing or PPE to prevent repeated or prolonged contact with exposed skin.
<b>Respiratory protection</b>	If ventilation is not sufficient to control dust exposures below the applicable exposure limits, an appropriate NIOSH approved air-purifying respirator equipped with N100 or P100 filter is recommended.
<b>Hands</b>	Wear impervious gloves such as nitrile, butyl, neoprene, or PVC. Consult with your glove manufacturer or supplier for specific recommendations.
<b>General Industrial Hygiene Considerations</b>	Handle in accordance with good Industrial Hygiene and Safety practices.
<b>Environmental exposure controls</b>	<b>FACILITY LEVEL ENVIRONMENTAL EMISSIONS/MITIGATION<sup>1</sup></b> No environmental exposure expected under normal use

## 9: Physical and chemical properties

**9.1: Information on basic physical and chemical properties**

<b>Appearance</b>	Opaque liquid – Yellow to brown in color
<b>Odor</b>	Mild odor
<b>pH</b>	Not applicable
<b>Melting point</b>	Not applicable
<b>Initial boiling point / boiling range</b>	≥ 212°F
<b>Flash point</b>	>242°F
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	Non-flammable
<b>Upper / lower flammability or explosive limits</b>	No Data Available
<b>Vapor pressure</b>	No Data Available
<b>Vapor density</b>	No Data Available
<b>Relative density</b>	specific gravity 1 (water = 1)
<b>Solubility in water</b>	Soluble
<b>Partition coefficient (n-octanol / water)</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Not applicable
<b>Oxidizing properties</b>	Not applicable

**9.2: Other information**

No additional physical and chemical parameters noted

**10: Stability and reactivity****10.1: Reactivity**

Not reactive under recommended or normal conditions of handling, storage, processing, and use.

**10.2: Chemical stability**

Stable under normal use conditions.

**10.3: Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4: Conditions to avoid**

Incompatible materials

**10.5: Incompatible materials**

Strong acids and oxidizers

**10.6: Hazardous decomposition products**

None with proper storage and handling

**11: Toxicological information****Information on Toxicological Effects**

Endpoint	Petroleum distillates, hydrotreated heavy naphthenic	tris(N-hydroxyethyl) hexahydrotriazine	Ethanolamine	Ethanol, 2-[(2-aminoethyl)amino] -
<b>Acute oral toxicity</b>	LD50 – Rat – 2.81 mg/L	LD50 – Rat – 1520 mg/kg	LD50 - Rat - male and female - 1,089 mg/kg(	LD50 Oral - Rat - 3,000 mg/kg
<b>Acute inhalation toxicity</b>	May be fatal if swallowed and enters airways (aspiration hazard)	LC50 – Rat – 0.52-2.08 mg/L	Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.	No Data Available
<b>Acute dermal toxicity</b>	No Data Available	LD50 – Rabbit - >2000 mg/kg	LD50 - Rabbit - 1,015 mg/kg	LD50 Dermal - Rabbit - > 2,000 mg/kg
<b>Skin corrosion / irritation</b>	No Data Available	Causes skin irritation	Skin - Rabbit Result: Causes burns	Skin - Rabbit Result: Causes burns.
<b>Eye damage / irritation</b>	No Data Available	Causes serious eye irritation	Eyes - Rabbit Result: Corrosive	No Data Available
<b>Respiratory / skin sensitization</b>	No Data Available	May cause an allergic skin reaction	No Data Available	In animal experiments: Result: positive
<b>Germ cell mutagenicity</b>	No Data Available	No Data Available	Ames test Salmonella typhimurium Result: negative Mouse - male and female Result: negative	Ames test Result: negative
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways	Not Applicable	Not Applicable	No Data Available
<b>STOT – Single</b>	No Data Available	No Data Available	No Data Available	May cause respiratory irritation. Acute oral toxicity - If ingested, severe

				burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Acute inhalation toxicity - mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory trac
<b>STOT - Repeated</b>	No Data Available	No Data Available	No Data Available	No Data Available
<b>Reproductive/ Developmental</b>	No Data Available	No Data Available	No Data Available	May damage the unborn child. Suspected of damaging fertility

**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.

**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.

**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.

**11.1: Information on toxicological effects (continued)**

**Symptoms related to the physical, chemical and toxicological characteristics**

Skin or eye irritation. Signs/symptoms may include abrasion, redness, pain, and itching.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Immediate effects from short term exposure: None known

Delayed effects from chronic exposure: None known

**Interactive effects**

None known



## 12: Ecological information

This material is not expected to be harmful to the ecology during normal use conditions

### 12.1: Toxicity

Endpoint	Petroleum distillates, hydrotreated heavy naphthenic	tris(N-hydroxyethyl) hexahydrotriazine	Ethanolamine	Ethanol, 2-[(2-aminoethyl)amino]-
Toxicity to Fish		EC50 – Crustacea - 26.1 mg/l, 48 hours LC50 – Fish - 119 mg/l, 96 hours	semi-static test LC50 - Cyprinus carpio (Carp) - 150 mg/l - 96 h	LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h(N-(2-Hydroxyethyl)ethylenediamine)
Toxicity to Invertebrates		No Data Available	EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h	EC50 - Daphnia magna (Water flea) - 190 mg/l - 48 h(N-(2-Hydroxyethyl)ethylenediamine)
Toxicity to Algae and Plants		No Data Available	static test EC50 - Selenastrum capricornutum - 2.8 mg/l - 72h	IC50 - Desmodesmus subspicatus (green algae) - 210 mg/l - 72 h(N-(2-Hydroxyethyl)ethylenediamine)

### 12.2: Persistence and degradability

No data available

### 12.3: Bioaccumulative potential

No data available

### 12.4: Mobility in soil

No data available

### 12.5: Results of PBT and vPvB assessment

No data available

### 12.6: Other adverse effects

No data available

## 13: Disposal considerations

### 13.1: Waste treatment methods

#### FACILITY LEVEL ENVIRONMENTAL EMISSIONS / MITIGATION

##### Waste Management Controls

Dispose in accordance with local/regional/national/international regulations. Two options are recommended:

1. Re-use
2. Recycling or other recovery

Wastewater should be processed through appropriate water treatment system or handled per local rules and regulations.

## 14: Transport information

14.1: UN-No. (DOT / IATA / IMDG):	Not Applicable
14.2: UN proper shipping name:	Not Applicable
14.3: Transport hazard class(es):	Not Applicable
14.4: Packing group:	Not Applicable
14.5: Environmental hazard(s):	Not Applicable
14.6: Special precaution(s) for user:	Not Applicable
14.7: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not Applicable

## 15: Regulatory information

### 15.1: Safety, health and environmental regulations / legislation specific for the substance or mixture

#### US Federal Regulations

- **OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.
- **SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA (311/312) REPORTABLE GHS HAZARD CLASSES:**
  - Eye Irritation – Category 2B
  - Skin Irritation – Category 2
- **SARA 313 Components:** This material does not contain any known chemical components that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
- **TSCA Status:** this product is in compliance with all rules and orders of TSCA

#### US State Regulations

- **Massachusetts Right to Know Components:** None listed
- **Pennsylvania Right to Know Components:** None listed.
- **New Jersey Right to Know Components:** None listed
- **California Prop. 65 Components:** None listed.

**15.2: Chemical safety assessment**

Not Applicable

**16: Other information****History:**

Date of issue / Date of revision: 08/12/2020

Date of previous issue: Initial Release

Version: 1.0

**Text of Hazard Statement in Section 3:**

H227 – Combustible liquid

H302 – Harmful if swallowed

H314 – Causes severe skin burns and eye damage

H317 – May cause an allergic skin reaction

H318 – Causes serious eye damage

H335 – May cause respiratory irritation

H360 – May damage fertility or the unborn child

H401 – Toxic to aquatic life

H412 – Harmful to aquatic life with long lasting effects

This SDS provides information consistent with recommended applications of these products and anticipated activities involving the product. It is the user's responsibility to identify and protect against health and safety hazards presented by modification of this material and products after manufacture. Individuals handling this material should be informed of all relevant hazards and recommended safety precautions, and should have access to the information contained in this SDS.

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**End of Safety Data Sheet**