

# SAFETY DATA SHEET



Issuing Date: 05-17-2016

Revision Date: 05-17-2016

Version 1

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

### 1.1. Product identifier

**Product Code(s):** 95162004DO  
**Product Name** RelaTECH Drawing Oil 040

**Recommended use** Metalworking fluid, Drawing Any other purpose.  
**Uses advised against**

### Manufacturer, Importer, Supplier

RelaDyne, LLC.  
9395 Kenwood Rd., Suite 104  
Blue Ash, OH  
888-830-3156  
www.reladyne.com

**Transportation Emergency Response/ Health Emergency**  
INFOTRAC 800-535-5053

## SECTION 2: Hazards identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
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### GHS Label elements, including precautionary statements

**Signal Word**  
Warning

**Hazard Statements**  
Causes serious eye irritation



### Precautionary Statements

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection

#### Precautionary Statements - Response

**Eyes**

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

If eye irritation persists: Get medical advice/attention

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

Not applicable

### SECTION 3: Composition/information on ingredients

This product is a mixture. Health hazard information is based on its ingredients.

Chemical Name	CAS-No	Weight %
2,2',2"-Nitrilotriethanol	102-71-6	10% - 25%
Neutralised Rosin	8050-09-7*	10% - 25%
Neutralised 2-Aminoethanol	141-43-5*	2.5% - 10%
2,2',2"-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	4719-04-4	0% - 1%

### SECTION 4: First aid measures

**4.1. Description of first-aid measures**

<b>General advice</b>	Do not get in eyes, on skin, or on clothing. When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

**Main Symptoms** Eye damage/irritation

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

**Notes to physician** Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

**5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.: Use CO2, dry chemical,

or foam, Water spray or fog

**Extinguishing media which shall not be used for safety reasons**

None

**5.2. Special hazards arising from the substance or mixture****Special Hazard**

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Decomposition Products**

None under normal use

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Advice for non-emergency personnel**

Material can create slippery conditions.

**Advice for emergency responders** For personal protection see section 8.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and materials for containment and cleaning up**

After cleaning, flush away traces with water.

**6.4. Reference to other sections**

See Section 8/12/13 for additional information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

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

**Recommended Shelf Life**

No information available.

**Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

**7.3. Specific end uses**

Specific use(s) Metalworking fluid, Drawing

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA WEEL
2,2',2''-Nitrilotriethanol 102-71-6	TWA: 5 mg/m <sup>3</sup>			
Neutralised Rosin 8050-09-7*		(vacated) TWA: 0.1 mg/m <sup>3</sup> Formaldehyde	TWA: 0.1 mg/m <sup>3</sup> Formaldehyde	
Neutralised 2-Aminoethanol 141-43-5*	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup> (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>	

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Exposure controls**

**Engineering Measures** Showers.  
Eyewash stations.  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

- Eye/Face Protection** Tightly fitting safety goggles.
- Skin and body protection** Wear protective gloves/clothing.
- Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
- Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: Physical and chemical properties**

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

<b>Physical state @20°C</b>	liquid	<b>Appearance</b>	clear , amber
<b>Odor</b>	Slight sweet	<b>Odor Threshold</b>	Not Applicable
<b>Property</b>	<b>Values</b>	<b>Note</b>	
<b>pH</b>	9.3		
<b>Melting Point / Freezing Point</b>	No information available.		
<b>Boiling point/boiling range</b>	102 °C / 216 °F		
<b>Flash point</b>	Not Applicable		
<b>Evaporation rate</b>	< 1		(BuAc = 1)
<b>Flammability (solid, gas)</b>	No information available		

<b>Flammability Limits in Air</b>		
<b>upper flammability limit</b>	No information available.	
<b>Lower flammability limit</b>	No information available.	
<b>Vapor pressure</b>	No information available.	
<b>Vapor density</b>	No information available.	
<b>Relative density</b>	1.05	@ 15.5C
<b>Solubility(ies)</b>	Water solubility: completely soluble	
<b>Partition coefficient: n-octanol/water</b>	Not Applicable	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity, kinematic</b>	No information available	
<b>Explosive properties</b>	Not Applicable	
<b>Oxidizing Properties</b>	Not Applicable	

**9.2 Other information**

<b>Viscosity, kinematic (100°C)</b>	No information available	
<b>Pour point</b>	No information available	
<b>VOC Content</b>	0 g/L	ASTM E1868-10

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

None under normal use conditions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal use conditions

**10.4. Conditions to avoid**

Do not freeze

**10.5. Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

**10.6. Hazardous decomposition products**

None under normal use conditions

**SECTION 11: Toxicological information**

**Information on likely routes of exposure**

<b>Product Information</b>	There is no data available for this product.
<b>Inhalation</b>	There is no data available for this product.
<b>Eye contact</b>	Irritating to eyes.
<b>Skin contact</b>	There is no data available for this product.
<b>Ingestion</b>	There is no data available for this product.

**Component Information**

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
2,2',2''-Nitrilotriethanol 102-71-6		> 16 mL/kg ( Rat ) > 2000 mg/kg ( Rabbit )	
Neutralised Rosin 8050-09-7*	= 2800 mg/kg ( Rat )	> 2500 mg/kg ( Rabbit )	
Neutralised 2-Aminoethanol 141-43-5*	1720 mg/kg ( Rat )		
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol 4719-04-4	= 763 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	0.371 mg/L (4h) (Rat)

**Information on toxicological effects**

**Symptoms** Moderately irritating to the eyes. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

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

**Sensitization** None known.

**Germ Cell Mutagenicity** None known.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

*ACGIH: (American Conference of Governmental Industrial Hygienists)  
A3 - Animal Carcinogen*

**Reproductive toxicity** None known.

**Specific target organ systemic toxicity (single exposure)** None known.

**Specific target organ systemic toxicity (repeated exposure)** None known.

**Aspiration hazard** None known.

**SECTION 12: Ecological information****Ecotoxicity**

No special environmental measures are necessary.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2,2',2''-Nitrilotriethanol	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600-13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450-1000: 96 h Lepomis macrochirus mg/L LC50 static		1386: 24 h Daphnia magna mg/L EC50
Neutralised Rosin	39.6: 72 h Selenastrum capricornutum mg/L EC50	60.3: 96 h Brachydanio rerio mg/L LC50		3.8: 48 h Daphnia magna mg/L EC50
Neutralised 2-Aminoethanol	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300-1000: 96 h Lepomis macrochirus mg/L		65: 48 h Daphnia magna mg/L EC50

		LC50 static 114-196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	6.66: 72 h Desmodosmus subspicatus mg/L EC50	16.07: 96 h Brachydanio rerio mg/l LC50	11.9: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical Name	log Pow
2,2',2''-Nitrilotriethanol 102-71-6	-2.53

**Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**Waste treatment**

**Waste Disposal Methods**

Dispose of in accordance with federal, state, and local regulations.

**Contaminated packaging**

Observe all label precautions until container is cleaned, reconditioned or destroyed.

**SECTION 14: Transport information**

**DOT**

Not regulated

**TDG**

Not regulated

**ICAO/IATA**

Not regulated

**IMDG/IMO**

Not regulated

**SECTION 15: Regulatory information**

**International Inventories**

<b>TSCA</b>	-
<b>DSL</b>	All components are NOT on the Chemical Inventory
<b>AICS</b>	Does not Comply
<b>PICCS</b>	Does not Comply
<b>KECL</b>	Does not Comply
<b>IECSC</b>	Does not Comply
<b>ENCS</b>	Does not Comply

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**AICS** - Australian Inventory of Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	no
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	no

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**SCAQMD Rule 1144**

THIS PRODUCT DOES NOT CONTAIN VOCS AS DETERMINED BY TEST METHOD ASTM E1868-10 AND THEREFORE CAN BE USED WITH NO RESTRICTIONS AS A METAL WORKING FLUID OR AS A DIRECT CONTACT LUBRICANT IN CALIFORNIA'S SCAQMD REGION AS PER RULE 1144

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
2,2'-Iminodiethanol	111-42-2	Carcinogen
1,4-Dioxane	123-91-1	Carcinogen

**International Regulations**

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

D2B Toxic materials

**Other information**

Not applicable

**SECTION 16: Other information**

<b>NFPA</b>	Health Hazard 2	Flammability 1	Instability 0	Physical and chemical hazards -
<b>HMIS</b>	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal protection X

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

- STOT SE - Specific target organ systemic toxicity (Single exposure)
- STOT RE - Specific target organ systemic toxicity (repeated exposure)
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory



VOC - Volatile organic compounds  
NIOSH IDLH: Immediately Dangerous to Life or Health

**Issuing Date:** 05-17-2016

**Revision Date:** 05-17-2016

**Revision Note**

No information available

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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