# SAFETY DATA SHEET Drawing Oil 5565



# 1. Identification

Product identifier	RelaTECH Drawing Oil 5565 METALWORKING FLUID	
Other means of identification SDS number Recommended use Recommended restrictions Manufacturer/Importer/Supplier Manufacturer	384 METALWORKING FLUID None known /Distributor information	PRODUCT CODE: 951625565DO
Company name Telephone (General Information) Emergency telephone number	Reladyne, LLC 8280 Montgomery Road, Suite 101 Cincinnati, OH 45236 888-830-3156 www.reladyne.com INFOTRAC 800-535-5053	

# 2. Hazard(s) identification

Physical hazards		
Health hazards	Not classified.	Category 2
	Serious eye damage/eye irritation	Effects on or via lactation
Environmental hazards	Reproductive toxicity	
OSHA defined hazards	Not classified.	
Label elements	Not classified.	
Laber elements	<b>^</b>	
	$\mathbf{\vee}$	
Signal word	Warning	
Hazard statement	Causes serious eye irritation. May cause har	rm to breast-fed children.
Precautionary statement		
Prevention	Obtain special instructions before use. Do no pregnancy/while nursing. Wash thoroughly at this product. Wear protective gloves/protectiv	fter handling. Do not eat, drink or smoke when using
Desmanas		
Response	and easy to do. Continue rinsing. If eye irritat SKIN: Wash with plenty of soap and water. If advice/attention. IF INHALED: Remove to free breathing. Get medical advice/attention if you	esh air and keep at rest in a position comfortable for u feel unwell. IF SWALLOWED: Call a POISON ell. Take off contaminated clothing and wash it before
Storage	Store in accordance with local/regional/natior area. Keep container tightly closed. Protect f materials.	nal/international regulation. Store in a well-ventilated rom sunlight. Store away from incompatible
Disposal	Dispose of contents/container in accordance	with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

# 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
SEVERELY-HYDROTREATED NAPHTHENIC PETROLEUM		64742-52-5	60 - 100
C14-C17 MEDIUM CHAIN CHLORINATED PARAFFIN		63449-39-8	5 - 10
DIETHYLENE GLYCOL		111-46-6	0.5 - 1.5
PETROLEUM SULFONIC ACID, SODIUM SALT		68608-26-4	0.5 - 1.5
2-BUTOXYETHANOL		111-76-2	0.1 - 1
Other components below reportable levels	S		7 - 13

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly. Do not give liquids. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention.
5. Fire-fighting measures	
Suitable extinguishing media	Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions,<br/>protective equipment and<br/>emergency proceduresKeep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear<br/>appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor.<br/>Ensure adequate ventilation. Local authorities should be advised if significant spillages cannotbe<br/>contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Local authorities should be advised if significant spillages cannot be contained. This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand orearth and place into containers. Clean up in accordance with all applicable regulations. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not breathe mist or vapor. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. To maintain product quality, do not store in heat or direct sunlight. Store in original tightly closed container. Room temperature - normal conditions. Store away from incompatible materials (see Section 10 of the SDS). Keep this material away from food, drink and animal feed. Do not allow material to freeze. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

# 8. Exposure controls/personal protection

# Occupational exposure limits

Туре	Value	
PEL	5 mg/m3	
ontaminants (29 CFR 1910.100	00)	
Туре	Value	
PEL	240 mg/m3	
	50 ppm	
Туре	Value	
STEL	10 mg/m3	
TWA	5 mg/m3	
cal Hazards		
Туре	Value	
TWA	24 mg/m3	
	5 ppm	
Туре	Value	
TWA	5 mg/m3	
	PEL contaminants (29 CFR 1910.100 Type PEL Type STEL TWA cal Hazards Type TWA TWA	PEL 5 mg/m3 Sontaminants (29 CFR 1910.1000) Type Value PEL 240 mg/m3 50 ppm Type Value STEL 10 mg/m3 TWA 5 mg/m3 cal Hazards TWA 5 mg/m3 cal Hazards Type Value TWA 24 mg/m3 5 ppm Type Value

## **US. ACGIH Threshold Limit Values**

	Туре	Value
2-BUTOXYETHANOL (CAS 111-76-2)	TWA	20 ppm
Exposure guidelines		
US - California OELs: Skin	designation	
2-BUTOXYETHANOL (C		Can be absorbed through the skin.
US - Minnesota Haz Subs:		
2-BUTOXYETHANOL (C US - Tennessee OELs: Skir		Skin designation applies.
2-BUTOXYETHANOL (0 US NIOSH Pocket Guide to		Can be absorbed through the skin. esignation
2-BUTOXYETHANOL (C US. OSHA Table Z-1 Limits		Can be absorbed through the skin. FR1910.1000)
2-BUTOXYETHANOL (C	CAS 111-76-2)	Can be absorbed through the skin.
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.	
Individual protection measures	, such as personal protecti	veequipment
Eye/face protection	Wear safety glasses with	side shields (or goggles). Eye wash fountain is recommended.
Skin protection		
Hand protection	Use protective gloves mad	de of: Nitrile.
Other	Wear suitable protective c	lothing and gloves. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	In case of insufficient vent	ilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	good personal hygiene me	rink or smoke. Do not get in eyes, on skin, on clothing. Always observe easures, such as washing after handling the material and before eating, Routinely wash work clothing and protective equipment to remove

# 9. Physical and chemical properties

<i>,</i> , ,	•
Appearance	AMBER
Physical state	Liquid.
Form	Liquid.
Color	Amber.
Odor	CHEMICAL
Odor threshold	Not available.
рН	Not Applicable
Melting point/freezing point	< 32 °F (< 0 °C)
Initial boiling point and boiling range	> 212 ℉ (> 100 ℃)
Flash point	> 350 °F (> 160 °C) Cleveland Open Cup
Evaporation rate	Like water when diluted
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.

Relative density	Not available.
Solubility(ies)	100 % Water Miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
pH in aqueous solution	9.4 @ 5%
Specific gravity	0.98
VOC ASTM D2369	16 %

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Avoid contact with oxidizers or reducing agents.
Hazardous decomposition products	Smoke, fumes, hydrogen chloride, and oxides of carbon

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May be irritating to the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May be harmful if swallowed and enters airways. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

# Information on toxicological effects

Acute toxicity

Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
2-BUTOXYETHANOL (CA	S111-76-2)	
Acute		
Dermal		
LD50	Rabbit	400 mg/kg
Inhalation		
LC50	Mouse	700 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
Oral		
LD50	Guinea pig	1.2 g/kg
	Mouse	1.2 g/kg
	Rabbit	0.32 g/kg
	Rat	560 mg/kg
DIETHYLENE GLYCOL (C	CAS 111-46-6)	
Acute		
Dermal		
LD50	Rabbit	11890 mg/kg

Components	Species	Test Results
Oral		0000 //
LD50	Cat	3300 mg/kg
	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
	Mouse	13.3 g/kg
	Rabbit	26.9 g/kg
	Rat	12565 mg/kg
SEVERELY-HYDROTREATED N	APHTHENIC PETROLEUM (CAS 64742-52-5)	)
Acute	, , , , , , , , , , , , , , , , , , ,	
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
LC50	Rat	5.7 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
* Estimates for product may b	e based on additional component data not sho	
Skin corrosion/irritation	Prolonged skin contact may cause temporal	ry irritation. Defatting, drying and cracking ofskin.
Serious eye damage/eye	Direct contact with eyes may cause tempora	ary irritation.
irritation		
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin s	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcir	nogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
2-BUTOXYETHANOL (C US. OSHA Specifically Reg	AS 111-76-2) 3 Not classi ulated Substances (29 CFR 1910.1001-1050)	fiable as to carcinogenicity to humans.
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects		
Chronic enects	Prolonged inhalation may be harmful.	
12. Ecological information	1	
Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment. Toxic to aqu life with long lasting effects.	
Components	Species	Test Results
2-BUTOXYETHANOL (CAS 1	•	
Aquatic		
Fish	LC50 Inland silverside (Menidia be	eryllina) 1250 mg/l, 96 hours
	HLORINATED PARAFFIN (CAS 63449-39-8)	. ,
Fish	LC50 Bluegill (Lepomis macrochiru	us) > 0.1 mg/l, 96 hours
DIETHYLENE GLYCOL (CAS		
Aquatic	)       <del>' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' </del>	
Fish	LC50 Western mosquitofish (Gam	busia affinis) > 32000 mg/l, 96 hours
1 1011	vvestern mosquitonsn (Gam	$\sigma \sigma $

Components		Species	Test Results	
SEVERELY-HYDROTREAT	ED NAPHTH	IENIC PETROLEUM (CAS	64742-52-5)	
Aquatic				
Acute		<b>-</b>		
Fish	LC50	Fish	> 100 mg/l, 96 hours	
* Estimates for product may	be based on	additional component data	a notshown.	
ersistence and degradability		s available on the degrada		
Bioaccumulative potential		-		
Partition coefficient n-octa 2-BUTOXYETHANOL	nol / water (	( <b>log Kow)</b> 0.83	3	
Aobility in soil	No data a	available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal consideration	ons			
Disposal instructions	Consult authorities before disposal. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			
ocal disposal regulations	Dispose i	n accordance with all appl	icable regulations.	
lazardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Vaste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.			
14. Transport informatior	ı			
DOT	•			
UN number	Not Regu	llated		
UN proper shipping name	Not Regulated			
Transport bazard alass(as)				
Transport hazard class(es) Class		latad		
Subsidiary risk	Not Regu	liated		
Label(s)				
Packing group				
Environmental hazards				
		llated (See below) ety instructions, SDS and e	mergency procedures before handling.	
Special provisions Packaging exceptions Packaging non bulk				
Packaging bulk				
Supplemental Information: 4			ges (119 gallons or less) from Marine Pollutant Requirements	
unless all or part of the shipr	nent is by ve	ssel.		
ATA UN number	Not regul	atad in amall nackagaa		
UN proper shipping name	Not regul	ated in small packages		
Transport hazard class(es)				
Class Subsidiary risk				
Packing group				
Environmental hazards				
ERG Code				
		ety instructions, SDS and e		

Allowed.
Allowed.
Not regulated (in small containers)
<b>r</b> Read safety instructions, SDS and emergency procedures before handling. Not established.

**General information** 

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. It may be reportable under the provisions of SARA Sections311 and 312 if specific threshold criteria are met or exceeded.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

### Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

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Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

SARA 313 (TRI reporting) Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water ActNot regulated.(SDWA)Not regulated.Food and DrugNot regulated.Administration (FDA)Not regulated.

#### US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

#### US. Massachusetts RTK - Substance List

2-BUTOXYETHANOL (CAS 111-76-2)

### US. New Jersey Worker and Community Right-to-Know Act

2-BUTOXYETHANOL (CAS 111-76-2)

#### US. Pennsylvania Worker and Community Right-to-Know Law

2-BUTOXYETHANOL (CAS 111-76-2) DIETHYLENE GLYCOL (CAS 111-46-6)

#### US. Rhode Island RTK

Not regulated.

California South Coast Air	This product is subject to SCAQMD Rule 1144; it is compliant and may be sold and used in the
Quality Management	SCAQMD. The VOC content of the product is 105 g/L, measured by ASTM Method E-1868-10.
District (SCAQMD) Rule	This product has a specified use dilution VOC limit of 75 g/L, the maximum dilution concentration
1144 (VOC Emissions)	is 71 % to maintain compliance.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### International Inventories

Country(s) or region	Inventory name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates this product co	mplies with the inventory requirements administered by the governing country	v(s)

# 16. Other information, including date of preparation or last revision

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Issue date	06-01-2015
Revision date	06-21-2018
Version #	02
Further information	Not 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.
<b>Revision Information</b>	Section 1 Updated