



# MATERIAL SAFETY DATA SHEET

## Premium VM Concentrate

Issuing Date 08-01-2013

Revision Date 03-13-2014

Revision Number 1.4

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

Product Name RelateCH Premium VM Concentrate

**Other means of identification**

Synonyms No information available

**Recommended use of the chemical and restrictions on use**

Identified uses Lubricant

Uses advised against Consumer use

**Details of the supplier of the safety data sheet**

**Manufactured For:**

RelaDyne  
9395 Kenwood Rd, Suite 104  
Blue Ash, OH 45242  
www.reladyne.com

Telephone Number: 888.830.3156

Emergency: CHEMTREC 800.424.9300

### 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label Elements**

**Emergency Overview**

Signal Word None

appearance amber

Physical state liquid

Odor Hydrocarbon-like

## RelaTECH Premium VM Concentrate MSDS

Precautionary Statements – Prevention	None.
Response	None.
Eyes	None.
Skin	None.
Inhalation	None.
Ingestion	None.
Fire	None.
Spill	None.
Storage	None.
Disposal	None.

### Hazards not otherwise classified (HNOC)

None

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

The producer of "5508" declares that it contains less than 3% DMSO extractable material by IP-346

### **4. FIRST AID MEASURES**

#### First Aid Measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Inhalation</b>	Consult a physician. If not breathing, give artificial respiration.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water.

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

**Symptoms** None known.

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

**Notes to Physician** Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

**Flash Point** 222 °C / 432 °F

**Suitable Extinguishing Media** Water spray, Carbon dioxide (CO2), Foam, Dry chemical

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

**Specific Hazards Arising from the Chemical** Thermal decomposition can lead to release of irritating gases and vapors.

#### Explosion Data

**Sensitivity to Mechanical Impact** Not impact sensitive.

**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

**Protective Equipment and Precautions for Firefighters** Wear self-contained breathing apparatus and protective suit.

**NEPA** Health hazard 1 Flammability 1 Instability 1

## RelaTECH Premium VM Concentrate MSDS

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** Do not touch or walk through spilled material. Remove all sources of ignition.

#### Environmental Precautions

**Environmental Precautions** Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Refer to protective measures listed in Sections 7 and 8.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**Methods for Cleaning up** Use personal protective equipment. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. For personal protection see section 8.

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

**Technical measures/Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.  
**Incompatible products.** Strong oxidizing agents. Strong acids. Strong bases.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral Oil 8042-47-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>

#### Appropriate engineering controls

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

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

**Eye/Face Protection** Eye protection not needed during typical product use conditions. Wear eye protection as appropriate when handling the bulk formulation.

**Skin and Body Protection** Long sleeved clothing. Protective gloves.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## RelaTECH Premium VM Concentrate MSDS

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	liquid
appearance	amber
Odor	Hydrocarbon-like
Odor threshold	No information available

Property	Property
pH	6 - 8
Melting point/freezing point	No data available
Boiling Point/Range	no data available
Flash Point	222 °C / 432 °F
Vapor pressure	No data available
Vapor Density	< 1 ( Air = 1 )
Specific Gravity	0.908
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	29 cSt @ 40°C

### 10. STABILITY AND REACTIVITY

**Reactivity** No information available

**Chemical stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to Avoid** Heat, flames and sparks. Contact with other chemicals

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

**Component Information** No information available

#### Information on toxicological effects

**Symptoms** No information available.

## RelaTECH Premium VM Concentrate MSDS

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

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<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Target Organ Effects</b>	Respiratory system, Eyes, Skin.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5000 mg/kg

## 12. ECOLOGICAL INFORMATION

<b><u>Ecotoxicity</u></b>	No information available
<b><u>Persistence and Degradability</u></b>	No information available.
<b><u>Bioaccumulation</u></b>	No information available.
<b><u>Mobility</u></b>	The product is insoluble and floats on water.
<b><u>Other Adverse Effects</u></b>	No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Waste Disposal Methods</b>	Dispose of in accordance with local regulations.
<b>Contaminated Packaging</b>	Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	Not regulated
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## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDSL	Complies
NDSL	Complies
EINECS	Not determined
ELINCS	Not determined
ENCS	Complies
IECSC	Complies
KECL	Not determined
PICCS	Complies
AICS	Complies

## RelaTECH Premium VM Concentrate MSDS

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of 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

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	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 does not contain any components with a CERCLA RQ.

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

## 16. OTHER INFORMATION

Issuing Date	08-01-2013
Revision Date	03-13-2014
Reason for revision	No information available.

#### Disclaimer

The information provided in this Material 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 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.

**End of Safety Data Sheet**