# **Safety Data Sheet**



Issuing Date 19-Feb-2014

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Version 2

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

<u>Product identifier</u> Product name	Sierra NMMA FC-W 10W-30 Motor Oil
<u>Other means of identification</u> Product Code(s) Synonyms	18-9420-2, 18-9420-2R, 18-9420-3, 18-9420-3R, 18-9420-7 No information available
Recommended use of the chemical Recommended Use Uses advised against	l <u>and restrictions on use</u> Engine oil, Lubricant. All Other Uses
Details of the supplier of the safety Distributor Sierra International 1 Sierra Place Litchfield, IL 62056 Tel: 217-324-9487	data sheet
Emergency telephone number Company Emergency Phone Number Emergency telephone number	(618) 542-5431 Chemtrec 1-800-424-9300
	2. HAZARDS IDENTIFICATION

## **Classification**

## **OSHA Regulatory Status**

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

## Label elements

## EMERGENCY OVERVIEW

Appearance Amber colored liquid

Physical state viscous liquid

Odor Mild petroleum odor

## Hazards not otherwise classified (HNOC)

Other information

Toxic to aquatic life

Unknown Aquatic Toxicty

0% of the mixture consists of ingredient(s) of unknown toxicity

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

**Common Name** 

Hydrocarbon Lubricating Fluid.

## **Chemical Family** Chemical nature of the preparation Petroleum Lubricating Fluid.

Petroleum hydrocarbon mixture.

Chemical name	CAS-No	Weight %	Trade secret
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	80.74	*
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	2215-35-2	0.5-0.99	*
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	0.1-0.49	*
Phenol, dodecyl-, branched	121158-58-5	0.01-0.09	*
Diphenylamine	122-39-4	0.01-0.09	*
Toluene	108-88-3	0.002	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES				
First aid measures				
General advice No hazards which require special first aid measures.				
Eye contact	Flush eyes for 30 minutes with water. Get medical attention if irritation persists.			
Skin contact	n contact Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap andwater or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.			
Inhalation Move exposed persons to fresh air. Consult medical personnel if breathing issues occur.				
Ingestion Do NOT induce vomiting. Consult a physician.				
Most important symptoms and ef	fects, both acute and delayed			
Symptoms No information available.				
Indication of any immediate medi	cal attention and special treatment needed			
Notes to Physician	Treat symptomatically.			
	5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media Carbon dioxide (CO 2). Dry chemical. Foam. Water can be used to keep surrounding materials cool.				
Small Fires	Always use personal safety equipment. Follow appropriate personal safety procedures, and extinguishing media.			
Large Fires Contact emergency personnel.				

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the chemical

Combustible material.

Hazardous combustion productsCarbon monoxide. Carbon dioxide (CO2).

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## Protective equipment and precautions for firefighters

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

# 6. ACCIDENTAL RELEASE MEASURES

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

Personal protection	Avoid contact with the skin and the eyes. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. Wash skin with soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as material can cause surfaces to become very slippery.
Other information	Small spill: Remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material. Large Spill: Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.
For emergency responders	Clean up area with absorbent material and place in closed containers for disposal.
Environmental precautions	
Environmental precautions See Section 12 for additional Ecological Information.	
Methods and material for containm	ent and cleaning up
Methods for containment	Cover with earth, sand, or other non-combustible material followed with plastic sheets to minimize spreading or contact with rain.
Methods for cleaning up	Excess liquid material can be collected using a scoop or shovel and stored for recycling or disposal. Prevent material from entering drains or waterways.

# 7. HANDLING AND STORAGE

# Precautions for safe handling Advice on safe handling Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70 degrees C (158 F). It is recommended to pump or transfer material at ambient temperature. Conditions for safe storage, including any incompatibilities Keep away from heat and sources of ignition. Keep containers closed when not in use. **Storage Conditions** Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: store in cool dry area. Always follow local, state, and federal guidlines for storage of material for amount stored. **Incompatible Products** Strong oxidizing agents. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diphenylamine	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
122-39-4			

Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup>
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# Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, su	ch as personal protective equipment		
Eye/face Protection	If splashes are likely to occur, wear:. Goggles. Eye/face Protection.		
Skin and body protection	Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin wash with soap and water.		
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.		
General Hygiene Considerations	Remove and wash contaminated clothing before re-use.		
9. PHYSICAL AND CHEMICAL PROPERTIES			

# Information on basic physical and chemical properties

Physical state Appearance	viscous liquid Amber colored liquid	Odor	Mild petroleum odor
Color	amber	Odor threshold	No information available
<u>Property</u> pH	<u>Values</u> No information available No information available	Remarks • Method	
Melting point/freezing point Boiling Point/Range Flash point	No information available > 93.3 °C / > 200 °F	(based on components)	
Evaporation rate Flammability (solid, gas) Flammability Limit in Air	No information available No information available		
Upper flammability limit: Lower flammability limit: Vapor pressure	No information available No information available No information available		
Vapor density Specific gravity Water solubility	No information available 0.86-0.88 No information available		
Solubility in other solvents Partition coefficient	No information available No information available No information available		
Autoignition temperature Decomposition temperature Kinematic viscosity	No information available 70-80 @40C cSt		
Dynamic viscosity Explosive properties Oxidizing properties	No information available No information available No information available		
Other information			
Softening point VOC Content	No information available No information available		

#### Density Bulk density

No information available No information available

# **10. STABILITY AND REACTIVITY**

# Reactivity

No data available

# Chemical stability

Stable under normal conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

## Hazardous polymerization Hazardous polymerization does not occur.

#### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Excessive heat.

## Incompatible materials

Strong oxidizing agents.

## Hazardous decomposition products

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information		No data available	
Inhalation Eye contact Skin contact Ingestion		Inhalation of vapors in high concentration may cause irritation of respiratory system.	
		Avoid contact with eyes. May cause irritation.	
		Repeated exposure may cause skin dryness or cracking.	
		Do NOT taste or swallow.	

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) 2215-35-2	= 2000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	-	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	= 2000 mg/kg (Rat)	> 3200 mg/kg (Rabbit)	-	
Phenol, dodecyl-, branched 121158-58-5	= 2100 mg/kg (Rat)	= 5 mL/kg(Rabbit)	-	
Diphenylamine 122-39-4	= 1120 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-	
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat)4 h	

#### Information on toxicological effects

Symptoms

No information available.

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

Skin corrosion/irritation	Not Applicable.
Serious eye damage/eye irritation	Irritating to eyes.
Sensitization	None known.

Germ cell mutagenicity Carcinogenicity	benzene). Th carcinogen. L potential to ca	re known to cause cancer e mineral oil in this produc Jsed lubricating oil may co ause skin cancer. Continu cancer in animal tests.	t is highly refined and sho ntain hazardous compone	ould not be considered a
Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	-	Group 1	-	X
Toluene 108-88-3	-	Group 3	-	-
Reproductive toxicity Developmental toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	<ul> <li>Contains ingr</li> <li>No informatio</li> </ul>	n available.		

# Numerical measures of toxicity - Product Information

Unknown Aquatic Toxicty The following values are calculated	0% of the mixture consists of ingredient(s) of unknown toxicity <b>based on chapter 3.1 of the GHS document</b> .
ATEmix (oral)	5120 mg/kg
ATEmix (dermal)	5120 mg/kg

# **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Toxic to aquatic life

17.018% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) 2215-35-2	1.0 - 5.0: 96 h Pseudokirchneriella subcapitata mg/L EC50	25 - 50: 96 h Pimephales promelas mg/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 semi-static	4.0 - 6.0: 48 h Daphnia magna mg/L EC50
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	-	10 - 100: 96 h Pimephales promelas mg/L LC50 static 38: 96 h Pimephales promelas mg/L LC50 100: 96 h Pimephales promelas mg/L LC50 semi-static	
Phenol, dodecyl-, branched 121158-58-5	-	0.14: 96 h Oncorhynchus clarki mg/L LC50	-
Diphenylamine 122-39-4	1.5: 72 h Scenedesmus subspicatus mg/L EC50	3.47 - 4.14: 96 h Pimephales promelas mg/L LC50 flow-through	1.69 - 2.46: 48 h Daphnia magna mg/L EC50

Toluene	12.5: 72 h Pseudokirchneriella	11.0 - 15.0: 96 h Lepomis	5.46 - 9.83: 48 h Daphnia magna
108-88-3	subcapitata mg/L EC50 static	macrochirus mg/L LC50 static	mg/L EC50 Static 11.5: 48 h
	433: 96 h Pseudokirchneriella	14.1 - 17.16: 96 h Oncorhynchus	Daphnia magna mg/L EC50
	subcapitata mg/L EC50	mykiss mg/L LC50 static 15.22 -	
		19.05: 96 h Pimephales promelas	
		mg/L LC50 flow-through 5.89 -	
		7.81: 96 h Oncorhynchus mykiss	
		mg/L LC50 flow-through 50.87 -	
		70.34: 96 h Poecilia reticulata	
		mg/L LC50 static 12.6: 96 h	
		Pimephales promelas mg/L LC50	
		static 28.2: 96 h Poecilia	
		reticulata mg/L LC50 semi-static	
		5.8: 96 h Oncorhynchus mykiss	
		mg/L LC50 semi-static 54: 96 h	
		Oryzias latipes mg/L LC50 static	

# Persistence and degradability No information available.

## **Bioaccumulation**

No information available.

Chemical name	Partition coefficient
Diphenylamine 122-39-4	3.5
Toluene 108-88-3	2.65

Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

## Waste treatment methods

Waste Disposal Method

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** 

Do not reuse container.

Chemical name	RCRA	<b>RCRA - Basis for Listing</b>	<b>RCRA - D Series Wastes</b>	<b>RCRA - U Series Wastes</b>
Diphenylamine 122-39-4	(hazardous constituent - no waste number)	Included in waste streams: F039, K083, K104	-	-
Toluene 108-88-3	waste number U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151	-	-

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene 108-88-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	-

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Diphenylamine 122-39-4	Тохіс
Toluene 108-88-3	Toxic; Ignitable

# 14. TRANSPORT INFORMATION

DOT

Not regulated

<u>IATA</u>

PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO TI OR IATA DGR

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name SARA 313 - Threshold Values %	
Diphenylamine - 122-39-4	1.0
Toluene - 108-88-3	1.0

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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluene 108-88-3	1000 lb	X	Х	Х

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Toluene 108-88-3	1 lb	-	RQ 1 lb final RQ RQ 0.454 kg final RQ

## U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Prop. 65	
Toluene - 108-88-3	Developmental	
	Female Reproductive	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) 2215-35-2	Х	-	Х
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	X	-	X
Diphenylamine 122-39-4	Х	Х	Х
Toluene 108-88-3	Х	Х	Х

## U.S. EPA Label Information

EPA Pesticide registration number Not Applicable

16. OTHER INFORMATION							
NFPA_	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical Hazards -			
HMIS	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X			
Issuing Date	19-Feb-2	014					
Revision Date	04-Nov-2014						
Revision Note							
SDS sections update	ed 1 2 3 6 9 11 12 13 15 16						
Disclaimer							
The information pro	ovided on this SDS is corr	ect to the best of our kr	owledge information and	belief at the date of its			

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

## End of MSDS