



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

**Initial Preparation Date:** 09.15.2022

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**Revision date:** 05.30.2023

### Duramax Full Synthetic XLT 5W-30 dexos1 Gen 3

#### SECTION 1: Identification

##### Product Identifier

**Product Name:** Duramax Full Synthetic XLT 5W-30 dexos1 Gen 3

**Product code:** 950250530X3

##### Recommended Use of the Product and Restriction on Use

**Relevant Identified Uses:** Engine Oil

**Uses Advised Against:** Any use than recommended above.

**Reasons Why Uses Advised Against:** Not determined or not applicable.

##### Manufacturer or Supplier Details

###### Manufacturer:

###### United States

Reladyne, LLC

8280 Montgomery Road

Suite 1 Cincinnati, OH 45236

(888) 830-3156

sds@reladyne.com

##### Emergency Telephone Number:

###### United States

INFOTRAC

(800) 535-5053 (24/7)

#### SECTION 2: Hazard(s) Identification

##### GHS Classification:

Carcinogenicity, category 1B

Aspiration hazard, category 1

Chronic aquatic hazard, category 3

##### Label elements

###### Hazard Pictograms:



**Signal Word:** Danger

##### Hazard statements:

H304 May be fatal if swallowed and enters airways

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects

##### Precautionary Statements:

P273 Avoid release to the environment

P201 Obtain special instructions before use

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

P280 Wear protective gloves, protective clothing and eye protection.

P331 Do NOT induce vomiting

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P308+P313 If exposed or concerned: Get medical advice/attention.

P405 Store locked up

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Hazards Not Otherwise Classified:** None

## SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: N/A	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	1-90
CAS Number: 36878-20-3	Bis(nonylphenyl)amine	1-5

### Additional Information:

Interchangeable low viscosity base oil (<20,5 cSt @40°C) contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-9, 68649-12-7, 151006-60-9, 163149-28-8.

## SECTION 4: First Aid Measures

### Description of First Aid Measures

#### General Notes:

Show this Safety Data Sheet to the doctor in attendance.

#### After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

#### After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

#### After Eye Contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

#### After Swallowing:

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

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### Most Important Symptoms and Effects, Both Acute and Delayed

#### Acute Symptoms and Effects:

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat.

#### Delayed Symptoms and Effects:

May cause cancer. Insufficiently refined lubricant base oils with IP 346  $\geq$  3% produce tumors when tested in mouse dermal application tests. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

Symptoms of pulmonary edema may be delayed.

Exposure may cause cancer. Effects are dependent on exposure (dose, concentration, contact time).

### Immediate Medical Attention and Special Treatment

#### Specific Treatment:

Not determined or not applicable.

#### Notes for the Doctor:

Treat symptomatically.

## SECTION 5: Firefighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

#### Unsuitable Extinguishing Media:

Do not use water jet.

### Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

### Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

## SECTION 6: Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

### Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

### Methods and Material for Containment and Cleaning Up:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Do not touch damaged containers or spilled material unless wearing appropriate personal protective

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clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

### Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## SECTION 7: Handling and Storage

### Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

### Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

## SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

### Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	N/A	TLV-TWA: 5 mg/m <sup>3</sup> (8 hr [Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction])
NIOSH	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	N/A	REL-TWA: 5 mg/m <sup>3</sup> (Oil mist [mineral] - for up to a 10-hour workday during a 40-hour workweek)
	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	N/A	STEL: 10 mg/m <sup>3</sup> (Oil mist [mineral])
	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	N/A	IDLH: 2500 mg/m <sup>3</sup> (Mineral oil, mist)
United States(California)	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	N/A	8-Hour TWA: 5 mg/m <sup>3</sup> (Oil [mineral] mist)

### Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

### Information on Monitoring Procedures:

Not determined or not applicable.

### Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Personal Protection Equipment

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### Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

### Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

### General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

<b>Appearance</b>	Amber Liquid
<b>Odor</b>	Not determined or not available.
<b>Odor threshold</b>	Not determined or not available.
<b>pH</b>	Not determined or not available.
<b>Melting point/freezing point</b>	Not determined or not available.
<b>Initial boiling point/range</b>	> 280 °C / 536 °F estimated value(s)
<b>Flash point (closed cup)</b>	237 °C / 459 °F Method: ASTM D92 (COC)
<b>Evaporation rate</b>	Not determined or not available.
<b>Flammability (solid, gas)</b>	Not determined or not available.
<b>Upper flammability/explosive limit</b>	10%
<b>Lower flammability/explosive limit</b>	1%
<b>Vapor pressure</b>	< 0.5 Pa (20 °C / 68 °F) estimated value(s)
<b>Vapor density</b>	> 1 estimated value(s)
<b>Density</b>	836 kg/m <sup>3</sup> (15.0 °C / 59.0 °F) Method: ASTM D4052
<b>Relative density</b>	Not determined or not available.
<b>Solubilities</b>	negligible
<b>Partition coefficient (n-octanol/water)</b>	og Pow: > 6 (based on information on similar products)
<b>Auto/Self-ignition temperature</b>	> 320 °C / 608 °F
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	Not determined or not available.
<b>Kinematic viscosity</b>	66.4 mm <sup>2</sup> /s (40.0 °C / 104.0 °F) Method: ASTM D445
<b>Explosive properties</b>	Not determined or not available.

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### Oxidizing properties

Not determined or not available.

## SECTION 10: Stability and Reactivity

### Reactivity:

Not reactive under recommended handling and storage conditions.

### Chemical Stability:

Stable under recommended handling and storage conditions.

### Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

### Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

### Incompatible Materials:

Strong oxidizing agents

### Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological Information

### Acute Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

Name	Route	Result
Interchangeable low viscosity base oil (<20,5 cSt @40°C)	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
	inhalation	LC50 Rat: >5 mg/L (4 hr [aerosol])
Bis(nonylphenyl)amine	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg

### Skin Corrosion/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

### Serious Eye Damage/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

### Respiratory or Skin Sensitization

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

### Carcinogenicity

#### Assessment:

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May cause cancer.

**Product Data:** No data available.

**Substance Data:**

Name	Species	Result
Interchangeable low viscosity base oil (<20,5 cSt @40°C)		The classification as a carcinogen does not apply because it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

**International Agency for Research on Cancer (IARC):**

Name	Classification
Interchangeable low viscosity base oil (<20,5 cSt @40°C)	Not Applicable
Bis(nonylphenyl)amine	Not Applicable

**National Toxicology Program (NTP):**

Name	Classification
Interchangeable low viscosity base oil (<20,5 cSt @40°C)	Not Applicable
Bis(nonylphenyl)amine	Not Applicable

**OSHA Carcinogens:** Not applicable

**Germ Cell Mutagenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

**Reproductive Toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

**Specific Target Organ Toxicity (Single Exposure)**

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

**Specific Target Organ Toxicity (Repeated Exposure)**

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:**

No data available.

**Substance Data:** No data available.

**Aspiration toxicity**

**Assessment:**

May be fatal if swallowed and enters airways.

**Product Data:**

No data available.

**Substance Data:**

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Name	Result
Interchangeable low viscosity base oil (<20,5 cSt @40°C)	May be fatal if swallowed and enters airways.

### Information on Likely Routes of Exposure:

No data available.

### Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

### Other Information:

No data available.

## SECTION 12: Ecological Information

### Acute (Short-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

Name	Result
Bis(nonylphenyl)amine	Fish LC50 Danio rerio: > 100 mg/L (96 hr - static)
	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr - mobility)
	Aquatic Plants EC50 Freshwater algae: > 100 mg/L (72 hr)

### Chronic (Long-Term) Toxicity

#### Assessment:

Harmful to aquatic life with long lasting effects.

**Product Data:** No data available.

**Substance Data:** No data available.

### Persistence and Degradability

**Product Data:** No data available.

#### Substance Data:

Name	Result
Interchangeable low viscosity base oil (<20,5 cSt @40°C)	This substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Bis(nonylphenyl)amine	This substance is not readily biodegradable in water (1% degradation after 28 days).

### Bioaccumulative Potential

**Product Data:** No data available.

#### Substance Data:

Name	Result
Interchangeable low viscosity base oil (<20,5 cSt @40°C)	Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Bis(nonylphenyl)amine	Bioaccumulation of this UVCB in aquatic organisms is not expected (BCF: 1730 dimensionless, concentration 0.01 mg/l).

### Mobility in Soil

**Product Data:** No data available.

#### Substance Data:



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Name	Result
Interchangeable low viscosity base oil (<20,5 cSt @40°C)	Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.
Bis(nonylphenyl)amine	The Koc for this UVCB substance cannot be determined experimentally due to its low water solubility and because it is a reaction product consisting of a variety of constituents. However, absorption to the solid soil phase and suspended particles is expected for the constituent substances. Therefore, low mobility in soil can be assumed.

### Results of PBT and vPvB assessment

#### Product Data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

#### Substance Data:

##### PBT assessment:

Interchangeable low viscosity base oil (<20,5 cSt @40°C)	This substance is a UVCB and does not contain constituents included in the SVHC candidate list as PBT at concentrations above 0.1%.
Bis(nonylphenyl)amine	The substance is not PBT.

##### vPvB assessment:

Interchangeable low viscosity base oil (<20,5 cSt @40°C)	This substance is a UVCB and does not contain constituents included in the SVHC candidate list as vPvB at concentrations above 0.1%.
Bis(nonylphenyl)amine	The substance is not vPvB.

**Other Adverse Effects:** No data available.

## SECTION 13: Disposal Considerations

### Disposal Methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

### Contaminated packages:

Not determined or not applicable.

## SECTION 14: Transport Information

### United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

### International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None

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Environmental Hazards	None
Special Precautions for User	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

## SECTION 15: Regulatory Information

### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

**SARA Section 313 Toxic Chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

#### Massachusetts Right to Know:

N/A	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	Listed
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#### New Jersey Right to Know:

N/A	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	Listed
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**New York Right to Know:** None of the ingredients are listed.

#### Pennsylvania Right to Know:

N/A	Interchangeable low viscosity base oil (<20,5 cSt @40°C)	Listed
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**California Proposition 65:** None of the ingredients are listed.

**Additional information:** Not determined.

## SECTION 16: Other Information

**Abbreviations and Acronyms:** None

### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 0-1-0

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End of Safety Data Sheet