



# SAFETY DATA SHEET

## Section 1. Identification

CHS Inc.	Transportation Emergency (CHEMTREC)	:	1-800-424-9300
P.O. Box 64089	Technical Information	:	1-651-355-8443
Mail station 525	SDS Information	:	1-651-355-8445
St. Paul, MN 55164-0089			

<b>Product name</b>	: Commercial 5W-40 HD Full Synthetic Oil	<b>SDS no.</b>	: 1391-906937
<b>Common name</b>	: Synthetic Motor Oil 5W-40	<b>Revision date</b>	: 03/26/2015
<b>Chemical name</b>	: Lubricating oil.	<b>Chemical formula</b>	: Mixture
<b>Chemical family</b>	: Hydrocarbon.		

### Relevant identified uses of the substance or mixture and uses advised against

Lubricant.

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : ASPIRATION HAZARD - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : May be fatal if swallowed and enters airways.

### **Precautionary statements**

**General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** : Not applicable.

**Response** : IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified (HNOC)** : None known.

**Hazardous Material Information System (U.S.A.)**    **Health** : 1 \*    **Flammability** : 1    **Physical hazards** : 0

**National Fire Protection Association (U.S.A.)**    **Health** : 1    **Flammability** : 1    **Instability** : 0

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Chemical name** : Lubricating oil.

**Other means of identification** : Synthetic Motor Oil 5W-40

Ingredient name	%	CAS number
1-Decene, homopolymer, hydrogenated	10 - 30	68037-01-4
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs.	1 - 5	84605-20-9
Butene, homopolymer	1 - 5	9003-29-6
Dinonyl diphenylamine	1 - 5	36878-20-3

Any concentration shown as a range is to protect confidentiality.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.
- Inhalation** : If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.
- Skin contact** : If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.
- Ingestion** : If material has been swallowed, do not induce vomiting. Get medical attention immediately.

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

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness.
- Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing.
- Skin contact** : Adverse symptoms may include the following: irritation, redness.
- Ingestion** : No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or water spray (fog) to extinguish fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : Toxic fumes gases or vapors may evolve on burning.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides
- Special protective actions for fire-fighters** : When fighting fires wear full turnout gear and self contained breathing apparatus. Water may cause splattering. Material floats on water.
- Special protective equipment for fire-fighters** : Not applicable.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### Methods and materials for containment and cleaning up

- Spill** : Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Conditions for safe storage, including any incompatibilities** : Handling temperatures should not exceed 175°F (80°C). Do not store at temperatures exceeding 113°F (45°C). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

- Appropriate engineering controls** : Use only with adequate ventilation.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Recommended: Splash goggles and a face shield, where splash hazard exists.
- Skin protection**
- Hand protection** : 4 - 8 hours (breakthrough time): Nitrile gloves.
- Body protection** : Recommended: Long sleeved coveralls.
- Other skin protection** : Recommended: Impervious boots.
- Respiratory protection** : If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.

## Section 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	: Liquid.	<b>Relative density</b>	: 0.88 to 0.89
<b>Color</b>	: Amber.	<b>Evaporation rate</b>	: <1 (Ether = 1)
<b>Odor</b>	: Mild.	<b>Solubility</b>	: Insoluble in the following materials: cold water and hot water.
<b>Odor threshold</b>	: Not available.	<b>Solubility in water</b>	: Insoluble
<b>pH</b>	: Not available.	<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Melting point</b>	: Not available.	<b>Auto-ignition temperature</b>	: >260°C (>500°F)
<b>Boiling point</b>	: Not available.	<b>Decomposition temperature</b>	: Not available.
<b>Flash point</b>	: Closed cup: >205°C (>401°F)	<b>SADT</b>	: Not available.
<b>Flammability</b>	: Not available.	<b>Viscosity</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Not available.	<b>Vapor pressure</b>	: <0.13 kPa (<1 mm Hg) (68°F)
		<b>Vapor density</b>	: Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs.	LD50 Oral	Rat	>5 g/kg	-

#### Irritation/Corrosion

<b>Skin</b>	: There is no data available.
<b>Eyes</b>	: There is no data available.
<b>Respiratory</b>	: There is no data available.

#### Sensitization

<b>Skin</b>	: There is no data available.
<b>Respiratory</b>	: There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

#### Reproductive toxicity

There is no data available.

#### Teratogenicity

There is no data available.

#### Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

Name	Result
1-Decene, homopolymer, hydrogenated Butene, homopolymer	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

## Section 12. Ecological information

### Toxicity

There is no data available.

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
1-Decene, homopolymer, hydrogenated	>6.5	-	high
Butene, homopolymer	7.6 to 7.8	314 to 1882	high
Dinonyl diphenylamine	3.64 to 7.02	1730	high

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : There is no data available.

**Other adverse effects** : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** : Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

### Section 14. Transport information

**DOT IDENTIFICATION NUMBER** Not applicable.      **DOT proper shipping name** Not applicable.

**DOT Hazard Class(es)** Not applicable.      **PG** Not applicable.      **DOT EMER. RESPONSE GUIDE NO.** Not applicable

### Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) PAIR:** Diphenylamine  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** At least one component is not listed.  
**Clean Water Act (CWA) 307:** Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts; Benzene  
**Clean Water Act (CWA) 311:** Benzene; Ethylenediamine; Vinyl acetate

**Clean Air Act Section 602 Class I Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Not listed

**SARA 302/304****Composition/information on ingredients**

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Ethylenediamine	0 - 0.1	Yes.	10000	1337.1	5000	668.5
Vinyl acetate	0 - 0.1	Yes.	1000	129	5000	644.8

**SARA 304 RQ** : 87071607.7 lbs / 39530509.9 kg [12192476.3 gal / 46153543.4 L]

**SARA 311/312**

**Hazard classifications** : No hazard applicable.

**Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Butene, homopolymer	1 - 5	No.	No.	No.	Yes.	No.

**SARA 313** : This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Zinc compounds	Mixture	less than 0.13% as Zinc

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

**Massachusetts** : The following components are listed: Distillates (petroleum), solvent-refined light paraffinic; Distillates (petroleum), hydrotreated light paraffinic

**New York** : None of the components are listed.

- New Jersey** : The following components are listed: Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), solvent-refined light paraffinic; Distillates (petroleum), solvent-dewaxed heavy paraffinic; Distillates (petroleum), hydrotreated light paraffinic
- Pennsylvania** : None of the components are listed.
- California Prop. 65** : **WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.  
**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)
Vinyl acetate	Yes.	No.	No.	No.

**Section 16. Other information**

- Revision date** : 03/26/2015 **Supersedes** : 12/18/2012
- Revised Section(s)** : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. **Prepared by** : KMK Regulatory Services Inc.

Notice to reader

THE INFORMATION CONTAINED IN THIS SDS RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED. IT DOES NOT COVER USE OF THAT MATERIAL IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PARTICULAR PROCESS. IN COMPLIANCE WITH 29 C.F.R. 1910.1200(g), CHS HAS PREPARED THIS SDS IN SEGMENTS, WITH THE INTENT THAT THOSE SEGMENTS BE READ TOGETHER AS A WHOLE WITHOUT TEXTUAL OMISSIONS OR ALTERATIONS. CHS BELIEVES THE INFORMATION CONTAINED HEREIN TO BE ACCURATE, BUT MAKES NO REPRESENTATION, GUARANTEE, OR WARRANTY, EXPRESS OR IMPLIED, ABOUT THE ACCURACY, RELIABILITY, OR COMPLETENESS OF THE INFORMATION OR ABOUT THE FITNESS OF CONTENTS HEREIN FOR EITHER GENERAL OR PARTICULAR PURPOSES. PERSONS REVIEWING THIS SDS SHOULD MAKE THEIR OWN DETERMINATION AS TO THE MATERIAL'S SUITABILITY AND COMPLETENESS FOR USE IN THEIR PARTICULAR APPLICATIONS.