

Material Safety Data Sheet

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Revision Date : 05/07/2013

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Commercial Product Name: **ENGINE OIL**

Part number: ZW352530 DSP

Version : 1.1

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ENGINE OIL

MSDS Number : 888100003597

Product Use Description : Anti-friction agent and lubricant

Company : Volkswagen Canada, Inc.
777 Bayly Street West
Ajax, Ontario
Canada L1S 7G7

Telephone : 248 754 4944
8:00 am. – 5:00 pm. EST

Telefax : 248 754 4943

Emergency telephone : 631 996 6666
number

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Regulatory status : This product, material or substance is a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.

Signal Word : WARNING

Form : liquid

Odour : hydrocarbon-like

Odour - Control parameters : no data available

Hazard Summary : Toxic

Potential Health Effects

Inhalation : Harmful if inhaled.

Target Organs : Respiratory system

Carcinogenicity:

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- ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- CA Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent
Residual oils (petroleum), solvent-refined; Baseoil - unspecified	64742-01-4	>= 7 - < 10
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	64742-65-0	>= 7 - < 10
Residual oils (petroleum), solvent-dewaxed; Baseoil - unspecified	64742-62-7	>= 7 - < 10
Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil - unspecified	64741-88-4	>= 7 - < 10
Distillates (petroleum), hydrotreated middle; Gasoil - unspecified	64742-46-7	>= 7 - < 10

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Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified	64742-56-9	>= 7 - < 10
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified	72623-86-0	>= 7 - < 10
Residual oils (petroleum), clay-treated; Baseoil - unspecified	64742-41-2	>= 7 - < 10

SECTION 4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible). Remove from exposure, lie down. Never give anything by mouth to an unconscious person. Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.
- Inhalation : Remove to fresh air. Keep patient warm and at rest. In the case of inhalation of aerosol/mist consult a physician if necessary.
- Skin contact : Wash off immediately with soap and plenty of water.
- Eye contact : Remove contact lenses. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

SECTION 5. FIREFIGHTING MEASURES

- Form : liquid
- Flash point : 225 ° C (437 ° F)
- Ignition temperature : > 232 ° C (> 450 ° F)
- Lower explosion limit : Note: no data available

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- | | | |
|--|---|---|
| Upper explosion limit | : | Note: no data available |
| Suitable extinguishing media | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Extinguishing media which shall not be used for safety reasons | : | High volume water jet |
| Specific hazards during firefighting | : | Fire will produce dense black smoke containing hazardous combustion products (see section 10).
Exposure to decomposition products may be a hazard to health. |
| Special protective equipment for firefighters | : | Complete suit protecting against chemicals |
| Further information | : | Standard procedure for chemical fires.
In the event of fire and/or explosion do not breathe fumes.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---------------------------|---|---|
| Personal precautions | : | Refer to protective measures listed in sections 7 and 8.
Ensure adequate ventilation, especially in confined areas. |
| Environmental precautions | : | Try to prevent the material from entering drains or water courses.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities. |

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Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

Additional advice : Contaminated surfaces will be extremely slippery.

SECTION 7. HANDLING AND STORAGE

Handling

Handling : Avoid contact with skin and eyes.
Avoid formation of aerosol.
For personal protection see section 8.

Advice on protection : Normal measures for preventive fire protection.
against fire and explosion
Dust explosion class : not applicable

Storage

Requirements for storage : Keep containers tightly closed in a dry, cool and well-ventilated
areas and containers place.

Further information on : Keep away from heat and sources of ignition.
storage conditions

Advice on common storage : Keep away from food, drink and animal feedingstuffs.
Incompatible with oxidizing agents.

Other data : No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified	64742-65-0	CA AB OEL	TWA	5 mg/m3	2007-01-01
		CA AB OEL	STEL	10 mg/m3	2007-01-01
		CA QC OEL	TWAEV	5 mg/m3	2009-01-07
		CA QC OEL	STEV	10 mg/m3	2009-01-07
		CA BC OEL	TWA	1 mg/m3	2012-04-20
		CA BC OEL	TWA	0.2 mg/m3	2012-04-20
Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil - unspecified	64741-88-4	CA AB OEL	TWA	5 mg/m3	2007-01-01
		CA AB OEL	STEL	10 mg/m3	2007-01-01
		CA QC OEL	TWAEV	5 mg/m3	2009-01-07
		CA QC OEL	STEV	10 mg/m3	2009-01-07
		CA BC OEL	TWA	1 mg/m3	2012-04-20
		CA BC OEL	TWA	0.2 mg/m3	2012-04-20

Engineering measures : Provide adequate ventilation.

Eye protection : Safety glasses

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- Hand protection : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : Long sleeved clothing
- Respiratory protection : Not required; except in case of aerosol formation.
- Hygiene measures : Avoid contact with the skin and the eyes.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Odour : hydrocarbon-like
- Flash point : 225 ° C (437 ° F)
- Ignition temperature
> 232 ° C (> 450 ° F)
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- pH : not applicable
- Freezing point : -40 - -30 ° C (-40 - -22 ° F)

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Boiling point/boiling range : no data available

Vapour pressure : no data available

Density : 0.86 g/cm³

Water solubility : negligible

Viscosity, kinematic : 9.3 - 12.5 mm²/s
at 100 ° C (212 ° F)

Volatile organic compounds : 0.00 %
(VOC) content

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : Strong oxidizing agents

Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

Hazardous reactions : Hazardous polymerisation does not occur.
Note: Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : no data available

Acute dermal toxicity : no data available

Acute inhalation toxicity : no data available

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- Skin irritation : Result: No skin irritation
Health injuries are not known or expected under normal use.
- Eye irritation : Result: No eye irritation
Health injuries are not known or expected under normal use.
- Sensitisation : no data available
- Carcinogenicity : No data is available on the product itself.
- Reproductive toxicity : No data is available on the product itself.
- Teratogenicity : No data is available on the product itself.
- Further information : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Component:

Residual oils (petroleum), solvent- 64742-01-4
refined; Baseoil - unspecified

Acute oral toxicity: LD50 rat
Dose: > 5,000 mg/kg

Acute dermal toxicity: LD50 rabbit
Dose: > 5,000 mg/kg

Skin irritation: Classification: Irritating to skin.
Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.
Result: Mild eye irritation

Distillates (petroleum), solvent- 64742-65-0
dewaxed heavy paraffinic; Baseoil
- unspecified

Acute oral toxicity: LD50 rat
Dose: > 5,000 mg/kg

Acute dermal toxicity: LD50 rabbit
Dose: > 5,000 mg/kg

Acute inhalation toxicity: LC50 rat
Dose: 4 mg/l
Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

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Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.

Result: Mild eye irritation

Residual oils (petroleum), solvent- 64742-62-7
dewaxed; Baseoil - unspecifiedAcute oral toxicity: LD50 rat

Dose: > 5,000 mg/kg

Acute dermal toxicity: LD50 rabbit

Dose: > 2,000 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 2.18 mg/l

Exposure time: 4 h

Skin irritation: rabbit

Classification: Irritating to skin.

Result: Mild skin irritation

Eye irritation: rabbit

Classification: Irritating to eyes.

Result: Mild eye irritation

Sensitisation: Did not cause sensitisation on laboratory animals.Distillates (petroleum), solvent- 64741-88-4
refined heavy paraffinic; Baseoil -
unspecifiedAcute oral toxicity: LD50 rat

Dose: > 5,000 mg/kg

Acute dermal toxicity: LD50 rabbit

Dose: > 5,000 mg/kg

Distillates (petroleum), solvent- 64742-56-9
dewaxed light paraffinic; Baseoil -
unspecifiedAcute oral toxicity: LD50 rat

Dose: > 5,000 mg/kg

Acute dermal toxicity: LD50 rabbit

Dose: > 2,000 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 2.18 mg/l

Exposure time: 4 h

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Lubricating oils (petroleum), C15- 72623-86-0
30, hydrotreated neutral oil-based;
Baseoil - unspecified

Acute oral toxicity: LD50 rat
Dose: > 5,000 mg/kg

Skin irritation: Classification: Irritating to skin.
Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.
Result: Mild eye irritation

Residual oils (petroleum), clay- 64742-41-2
treated; Baseoil - unspecified

Acute oral toxicity: LD50 rat
Dose: > 5,000 mg/kg

Acute dermal toxicity: LD50 rabbit
Dose: > 2,000 mg/kg

Acute inhalation toxicity: LC50 rat
Dose: 2.18 mg/l
Exposure time: 4 h

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound : not included
halogens (AOX)

Volatile organic compounds : 0.00 %
(VOC) content

Additional ecological : The product should not be allowed to enter drains, water
information courses or the soil.

Component:

Distillates (petroleum), solvent- 64741-88-4
refined heavy paraffinic; Baseoil -
unspecified

Toxicity to fish:
LC50
Species: Oncorhynchus mykiss (rainbow trout)
Dose: > 5,000 mg/l
Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

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EC50

Species : Daphnia magna (Water flea)

Dose: > 1,000 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

Species : Scenedesmus capricornutum (fresh water algae)

Dose: > 1,000 mg/l

Exposure time: 96 h

SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT 49 CFR

Not dangerous goods

TDGR

Not dangerous goods

ICAO / IATA-DGR

Not dangerous goods

IMDG-Code

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

TSCA Status : On TSCA Inventory

DSL Status : All components of this product are on the Canadian DSL.

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California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

WHMIS Classification : D1B Toxic Material Causing Immediate and Serious Toxic Effects
Toxic by inhalation.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

Further information

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.

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