

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 30.06.2015

Version 1

Revision: 30.06.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
 - **Product name: MotorVac Engine Oil Treatment**
 - **Part number:** 400-6220
 - **Application of the substance / the mixture** Engine oil additive
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Motorvac, division of, CPS Products Canada Ltd.
1324 Blundell Road
Mississauga, Ontario, L4Y 1M5
Canada
Phone: (905) 615-8620
 - **email of person responsible:** customerservice@motorvac.com
- **1.4 Emergency telephone number:** CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
Eye Irrit. 2 H319 Causes serious eye irritation.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
 - **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**
- 

GHS07
- **Signal word** Warning
 - **Hazard-determining components of labelling:**
zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts
 - **Hazard statements**
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
 - **Precautionary statements**

P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
 - **Additional information:** For Professional Use Only
- **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.

(Contd. on page 2)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 30.06.2015

Version 1

Revision: 30.06.2015

Product name: MotorVac Engine Oil Treatment

(Contd. of page 1)

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 36878-20-3 EINECS: 253-249-4	bis(nonylphenyl)amine Aquatic Chronic 4, H413	2.5-<10%
CAS: 90194-32-4 EINECS: 290-641-4	Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts Eye Irrit. 2, H319	0.1-≤2.5%
CAS: 2215-35-2 EINECS: 218-679-9	zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) Acute Tox. 3, H331; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	1-≤2.5%
CAS: 84605-29-8 EINECS: 283-392-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts Acute Tox. 3, H331; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	1-≤2.5%
CAS: 122-39-4 EINECS: 204-539-4	diphenylamine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-≤2.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:**

Rinse cautiously with water for 30 minutes. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.

· **After swallowing:**

Swallowing is an unlikely route of exposure. DO NOT INDUCE VOMITING. Get immediate medical attention.

· 4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

See section 11.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:**

CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.

· 5.2 Special hazards arising from the substance or mixture

See section 10 for additional information.

(Contd. on page 3)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 30.06.2015

Version 1

Revision: 30.06.2015

Product name: MotorVac Engine Oil Treatment

(Contd. of page 2)

- **5.3 Advice for firefighters**
 - **Protective equipment:**
Recommend wearing self-contained breathing apparatus. Water may cause splattering.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Personal protective equipment must be worn. Avoid contact with skin, eyes or clothing. Ventilate area if spilled in a confined space or other poorly ventilated area.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Take precautions to avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Use with adequate ventilation. Keep containers closed and upright when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid eye contact. Avoid repeated or prolonged skin contact. When handling, do not eat, drink, or smoke. Avoid drinking, tasting, swallowing or ingesting this product. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Avoid breathing dust, fume, gas, mist, vapors or spray. Avoid overheating. Avoid skin contact. Wash thoroughly after handling. Do not reuse empty containers. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
 - **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
Take precautions to avoid release to the environment. Store in a cool, dry, well-ventilated area. Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess of 250 deg F (121 deg C) are used. Store separately from incompatible materials. Keep container closed when not in use. Do not store in open, unlabeled or mislabeled containers. See section 10 for incompatible materials.
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
See section 10 for incompatible materials.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
Maximum Storage Temperature: 45 °C, 113 °F
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
(Contd. on page 4)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 30.06.2015

Version 1

Revision: 30.06.2015

Product name: MotorVac Engine Oil Treatment

(Contd. of page 3)

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

122-39-4 diphenylamine (0.3-<1%)

WEL	Short-term value: 20 mg/m ³ Long-term value: 10 mg/m ³
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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Nitrile. Neoprene.

Long sleeve shirt is recommended. Launder contaminated clothing before reuse.

· **Eye protection:**



Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Fluid

· **Colour:**

Yellow-brown

· **Odour:**

Mild

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

Undetermined.

· **Flash point:**

204 °C

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

· **Decomposition temperature:**

Not determined.

· **Self-igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Vapour pressure:**

Not determined.

(Contd. on page 5)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 30.06.2015

Version 1

Revision: 30.06.2015

Product name: MotorVac Engine Oil Treatment

(Contd. of page 4)

· Density at 20 °C:	0.918 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic at 40 °C:	258 mm ² /s
· Solvent content:	
· Organic solvents:	0.0 %
· Solids content:	0.5 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** High temperatures
- **10.5 Incompatible materials:** Oxidizing agents. Halogens and halogenated compounds.
- **10.6 Hazardous decomposition products:**
Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxides of the following elements will be formed: calcium, sulfur.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity**

· LD/LC50 values relevant for classification:		
Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>200 mg/l (rat)
36878-20-3 bis(nonylphenyl)amine		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
2215-35-2 zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)		
Oral	LD50	2230 mg/kg (rat)
Dermal	LD50	>25000 mg/kg (rat)
Inhalative	LC50/4 h	2.3 mg/l (rat)

(Contd. on page 6)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 30.06.2015

Version 1

Revision: 30.06.2015

Product name: MotorVac Engine Oil Treatment

(Contd. of page 5)

84605-29-8 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Oral	LD50	4468 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	>2.3 mg/l (rat)

122-39-4 diphenylamine

Oral	LD50	>800 mg/kg (rat)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)

· **Primary irritant effect:**

· **Skin corrosion/irritation**

May cause mild skin irritation.

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

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

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

LC50 (96 h)	10-100 mg/l (fathead)
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· **12.2 Persistence and degradability**

36878-20-3 bis(nonylphenyl)amine

Persistence and Degradability	0%, 28 d (-) (Sturm Test)
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2215-35-2 zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

Persistence and Degradability	1.5%, 28 d (-) (Sturm Test)
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84605-29-8 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Persistence and Degradability	1.5%, 28 d (-) (Sturm test)
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· **12.3 Bioaccumulative potential**

36878-20-3 bis(nonylphenyl)amine

Bioaccumulation	BCF 7.3 (-) (Octanol-Water Coefficient)
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2215-35-2 zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

Bioaccumulation	BCF 2.2 (-) (Octanol-Water Coefficient)
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84605-29-8 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Bioaccumulation	BCF 0.6 (-) (Octanol-Water Coefficient)
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122-39-4 diphenylamine

Bioaccumulation	BCF 3.4 (-) (Octanol-Water Coefficient)
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· **12.4 Mobility in soil** No further relevant information available.

(Contd. on page 7)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 30.06.2015

Version 1

Revision: 30.06.2015

Product name: MotorVac Engine Oil Treatment

(Contd. of page 6)

- **Ecotoxicological effects:**
 - **Remark:** Harmful to fish
- **Additional ecological information:**
 - **General notes:**
 - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
 - Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** Avoid release to the environment.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
 - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | Not Regulated |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Not Regulated |
| · 14.3 Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
| · Class | Not Regulated |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Not Regulated |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - No REACH Annex XVII restrictions
 - Contains no REACH candidate substance

(Contd. on page 8)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 30.06.2015

Version 1

Revision: 30.06.2015

Product name: MotorVac Engine Oil Treatment

(Contd. of page 7)

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Issue Date:** June 30, 2015

· **Relevant phrases**

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

· **Contact:** Engineering Department

· **Revision Changes:** v 1.0 - original release (June 30, 2015)

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
 Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4