

Safety Data Sheet
acc. to OSHA 29 CFR 1910.1200 HCS

Issue date: 07/07/2015

v 1

Revision Date: 07/07/2015

1 Identification

- **Product identifier**

- **Trade name: DieselTune Maximum Strength Fuel Injector Cleaner**

- **Part number:** 400-3012

- **Application of the substance / the mixture** diesel fuel additive for cleaning

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

- Motorvac, division of, CPS Products Canada Ltd.

- 1324 Blundell Road

- Mississauga, ON, L4Y 1M5

- Canada

- Phone: (905) 615-8620

- **Emergency telephone number:**

- CHEMTREC International +1 (703) 527-3887 (outside the US), 1-800-424-9300 (in the US) 24 hr

2 Hazard(s) identification

- **Classification of the substance or mixture**

Flam. Liq. 3 H226 Flammable liquid and vapor.

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**

- **GHS label elements**

- The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

- 2-ethylhexyl nitrate

- Distillates (petroleum), hydrotreated light

- Solvent naphtha (petroleum), light arom.

- 2-butoxyethanol

- **Hazard statements**

- Flammable liquid and vapor.

- Harmful if swallowed, in contact with skin or if inhaled.

- Causes skin irritation.

- Causes serious eye irritation.

- May cause genetic defects.

- May cause cancer.

- May be fatal if swallowed and enters airways.

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Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

Obtain special instructions before use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a poison center/doctor.

IF exposed or concerned: Get medical advice/attention.

Do NOT induce vomiting.

Store locked up.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:** Restricted to professional users.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 2

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1

Fire = 2

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following hazardous components.

· **Chemical components:**

| | | |
|-------------|---|----------|
| 64742-47-8 | Distillates (petroleum), hydrotreated light | 25-50% |
| 27247-96-7 | 2-ethylhexyl nitrate | 10-<25% |
| 111-76-2 | 2-butoxyethanol | 10-<20% |
| 64742-94-5 | Solvent naphtha (petroleum), heavy arom. | 2.5-<10% |
| 64742-95-6 | Solvent naphtha (petroleum), light arom. | 2.5-<10% |
| 1330-20-7 | xylene | 1-≤2.5% |
| 95-63-6 | 1,2,4-trimethylbenzene | 1-<2.5% |
| 178535-25-6 | Benzene, ethylenated, residues, distn. lights | 1-<2.5% |
| 100-41-4 | ethylbenzene | 0.1-<1% |
| 102-25-0 | 1,3,5-triethylbenzene | 0.1-<1% |

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4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately rinse with water. Immediately remove all contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

- **After eye contact:**

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

- **After swallowing:**

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

May cause nose, throat, and lung irritation.

May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard.

Harmful if swallowed. May be fatal if swallowed and enters airways. Swallowing a small quantity of this material will result in serious health hazard.

Irritating to skin and eyes. Could cause dermatitis. Will cause nausea and vomiting.

- **Indication of any immediate medical attention and special treatment needed**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Treat Symptomatically

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water

- **Special hazards arising from the substance or mixture** See section 10 for additional information.

- **Advice for firefighters**

- **Protective equipment:**

Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Do not use a water jet.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

- **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

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Take precautions to avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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.

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling**
Open and handle receptacle with care.
Use only in well ventilated areas.
Avoid contact with the eyes and skin.
Avoid contact with clothing.
Avoid splashes or spray in enclosed areas.
 - **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
 - **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:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Engineering Controls**
Ensure adequate ventilation in the workplace.
eye wash station
safety shower
- **Control parameters**

| | |
|---|---|
| · Components with limit values that require monitoring at the workplace: | |
| 111-76-2 2-butoxyethanol (10-<20%) | |
| PEL | TWA: 240 mg/m ³ , 50 ppm Skin |
| REL | TWA: 24 mg/m ³ , 5 ppm Skin |
| TLV | TWA: 97 mg/m ³ , 20 ppm BEI |

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1330-20-7 xylene (1-≤2.5%)

| | |
|-----|--|
| PEL | TWA: 435 mg/m ³ , 100 ppm |
| REL | STEL: 655 mg/m ³ , 150 ppm TWA: 435 mg/m ³ , 100 ppm |
| TLV | STEL: 651 mg/m ³ , 150 ppm TWA: 434 mg/m ³ , 100 ppm BEI |

95-63-6 1,2,4-trimethylbenzene (1-<2.5%)

| | |
|-----|-------------------------------------|
| REL | TWA: 125 mg/m ³ , 25 ppm |
| TLV | TWA: 123 mg/m ³ , 25 ppm |

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol (10-<20%)

| | |
|-----|--|
| BEI | 200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis |
|-----|--|

1330-20-7 xylene (1-≤2.5%)

| | |
|-----|--|
| BEI | 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids |
|-----|--|

· **Additional information:** The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Store protective clothing separately.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Chemical resistant protective gloves

· Eye protection:



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

· Body protection: Protective work clothing

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9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- **Form:** Liquid
- **Color:** Amber colored

- **Odor:** Sweetish

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

- **Melting point/Melting range:** Undetermined.

- **Boiling point/Boiling range:** 171 °C

- **Flash point:** 43 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 210 °C

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

- **Lower:** 0.5 Vol %

- **Upper:** 10.6 Vol %

- **Vapor pressure at 20 °C:** 2 hPa

- **Density at 20 °C:** 0.8 g/cm³

- **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:** Not determined.

- **Solvent content:**

- **Organic solvents:** 24.1 %

- **VOC content:** 24.1 %

- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

- **Possibility of hazardous reactions** No dangerous reactions known.

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- **Conditions to avoid** Heat, open flames, sparks.
- **Incompatible materials:** Strong Oxidizers
- **Hazardous decomposition products:** May include, and are not limited to: oxides of carbon.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

| | | |
|------------|----------|------------|
| Oral | LD50 | 1506 mg/kg |
| Dermal | LD50 | 1800 mg/kg |
| Inhalative | LC50/4 h | 11.1 mg/l |

27247-96-7 2-ethylhexyl nitrate

| | | |
|------------|----------|------------------|
| Oral | LD50 | 500 mg/kg (ATE) |
| Dermal | LD50 | 1100 mg/kg (ATE) |
| Inhalative | LC50/4 h | 11 mg/l (ATE) |

111-76-2 2-butoxyethanol

| | | |
|------------|----------|-----------------|
| Oral | LD50 | 470 mg/kg (rat) |
| Dermal | LD50 | 400 mg/kg (rab) |
| Inhalative | LC50/4 h | 2.2 mg/l (rat) |

64742-95-6 Solvent naphtha (petroleum), light arom.

| | | |
|------------|----------|-------------------|
| Oral | LD50 | >6800 mg/kg (rat) |
| Dermal | LD50 | >3400 mg/kg (rab) |
| Inhalative | LC50/4 h | >10.2 mg/l (rat) |

1330-20-7 xylene

| | | |
|------------|----------|---------------------|
| Oral | LD50 | 4300 mg/kg (rat) |
| Dermal | LD50 | 2000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 6700 mg/l (rat) |

95-63-6 1,2,4-trimethylbenzene

| | | |
|------------|----------|------------------|
| Oral | LD50 | 5000 mg/kg (rat) |
| Inhalative | LC50/4 h | 18 mg/l (rat) |

178535-25-6 Benzene, ethylenated, residues, distn. lights

| | | |
|------|------|-------------------|
| Oral | LD50 | >2000 mg/kg (rat) |
|------|------|-------------------|

100-41-4 ethylbenzene

| | | |
|------------|----------|----------------------|
| Oral | LD50 | 3500 mg/kg (rat) |
| Dermal | LD50 | 17800 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 17.8 mg/l (rat) |

· Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Causes serious eye irritation.
- **Inhalation:** Do not inhale, can cause respiratory system irritation.
- **Ingestion:** May be fatal if swallowed and enter airways.
- **Sensitization:** No sensitizing effects known.
- **Route of Exposure** ingestion, inhalation, skin, eye

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· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Irritant
Carcinogenic.

· **Carcinogenic categories**

| · IARC (International Agency for Research on Cancer) | | |
|--|-----------------|----|
| 111-76-2 | 2-butoxyethanol | 3 |
| 1330-20-7 | xylene | 3 |
| 100-41-4 | ethylbenzene | 2B |
| 91-20-3 | naphthalene | 2B |
| 98-82-8 | cumene | 2B |
| · NTP (National Toxicology Program) | | |
| 91-20-3 | naphthalene | R |
| 98-82-8 | cumene | R |
| · OSHA-Ca (Occupational Safety & Health Administration) | | |
| None of the ingredients is listed. | | |

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

111-76-2 2-butoxyethanol

| | |
|----------------------|---------------------------------|
| EC50 (48 h) | >1000 mg/L (daphnia) |
| LC50 (96 h) (static) | 1490 mg/l (Lepomis macrochirus) |

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (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

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** Avoid release to the environment.

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13 Disposal considerations

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

14 Transport information

| | |
|---|--|
| <ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA | UN1992 |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG, IATA | Flammable liquids, toxic, n.o.s. (Distillates (petroleum), hydrotreated light, 2-ethylhexyl nitrate) FLAMMABLE LIQUID, TOXIC, N.O.S. (Distillates (petroleum), hydrotreated light, 2-ethylhexyl nitrate) |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT | <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ul style="list-style-type: none"> · Class · Label |
| <ul style="list-style-type: none"> · IMDG | <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ul style="list-style-type: none"> · Class · Label |
| <ul style="list-style-type: none"> · IATA | <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ul style="list-style-type: none"> · Class · Label |
| <ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA | III |
| <ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: | No |
| <ul style="list-style-type: none"> · Special precautions for user | Warning: Flammable liquids |

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| | |
|--|--|
| · Danger code (Kemler): | 36 |
| · EMS Number: | F-E,S-D |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · DOT | |
| · Quantity limitations | On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": | UN1992, Flammable liquids, toxic, n.o.s. (Distillates (petroleum), hydrotreated light, 2-ethylhexyl nitrate), 3 (6.1), III |

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

| | |
|-----------|------------------------|
| 111-76-2 | 2-butoxyethanol |
| 1330-20-7 | xylene |
| 95-63-6 | 1,2,4-trimethylbenzene |
| 100-41-4 | ethylbenzene |
| 91-20-3 | naphthalene |
| 98-82-8 | cumene |

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

| | |
|----------|--------------|
| 100-41-4 | ethylbenzene |
| 91-20-3 | naphthalene |
| 98-82-8 | cumene |

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

| | | |
|-----------|-----------------|--------|
| 111-76-2 | 2-butoxyethanol | NL |
| 1330-20-7 | xylene | I |
| 100-41-4 | ethylbenzene | D |
| 91-20-3 | naphthalene | C, CBD |
| 98-82-8 | cumene | D, CBD |

· **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|-----------|-----------------|----|
| 111-76-2 | 2-butoxyethanol | A3 |
| 1330-20-7 | xylene | A4 |
| 100-41-4 | ethylbenzene | A3 |
| 91-20-3 | naphthalene | A4 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

2-ethylhexyl nitrate
Distillates (petroleum), hydrotreated light
Solvent naphtha (petroleum), light arom.
2-butoxyethanol

· **Hazard statements**

Flammable liquid and vapor.
Harmful if swallowed, in contact with skin or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
May be fatal if swallowed and enters airways.
Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
Do NOT induce vomiting.
Store locked up.

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Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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.

· **Contact:** Engineering Department

· **Issue Date** July 7, 2015

· **Revision Changes:** v 1.0 - original release (July 7, 2015)

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Muta. 1B: Germ cell mutagenicity, Hazard Category 1B

Carc. 1B: Carcinogenicity, Hazard Category 1B

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3