

Date of issue: 03/28/2014

Revision date: 07/11/18

Version: 1.0

1.1. Product identifier

Product name : FVP LOW VOC 45 NON-CHLORINATED BRAKE CLEANER
Product code : FVPNCBCVOC45-55GAL

1.2.

Use of the substance/mixture : Brake Cleaner.

1.3.

Details of the supplier of the safety data sheet

Factory Motor Parts
1380 Corporate Center Curve, Suite 200
Eagan, MN 55121
1-866-387-3343

1.4. Emergency telephone number

Emergency number 24 hr
Infotrac 1-800-535-5053

2.1. Classification of the substance or mixture

GHS-US classification

Flammable Liquid 2
Skin irritation 2
Eye irritation 2A
Reproductive toxicity 2 (developmental)
Specific target organ toxicity - Single exposure 3
Specific target organ toxicity - Repeated exposure 2
Aspiration hazard 1

2.2.

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS02

GHS07

GHS08

Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated. May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US)

: Keep away from heat/sparks/open flames/hot surfaces.– No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe gas/mist/vapors/spray. If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool. Dispose of contents and container in accordance with all

local, regional, national and international regulations.

2.3. **Safety Data Sheet**

No additional information available according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

2.4.

Unknown acute toxicity (GHS-US)

17 % of the mixture consists of ingredient(s) of unknown acute toxicity.

Substance

Not applicable

Mixture

| Name | Product identifier | % | GHS-US classification |
|--------------------------------------|----------------------|-----------|--|
| Acetone | (CAS No) 67-64-1 | 40 - 70 | Flam. Liq. 2 Eye Irrit. 2A STOT SE 3 |
| Heptane, branched, cyclic and linear | (CAS No) 426260-76-6 | 15 - 40 | Flam. Liq. 2 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1 |
| n-Heptane | (CAS No) 142-82-5 | 10 - 30 | Flam. Liq. 2 Skin Irrit. 2 STOT SE 3 |
| Xylenes (o-, m-, p- isomers) | (CAS No) 1330-20-7 | 7 - 13 | Flam. Liq. 3 Acute Tox. 4 (Dermal, Inhalation) Skin Irrit. 2 |
| Toluene | (CAS No) 108-88-3 | 0.5 - 1.5 | Flam. Liq. 2 Acute Tox. 4 (Oral) Skin Irrit. 2 Repr. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1 |

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

4.2.

- Symptoms/injuries after inhalation : May cause drowsiness, dizziness and central nervous system depression. May cause respiratory irritation.
- Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

4.3.

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

5.1. Extinguishing media

- Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2.

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

6.1. Personal precautions, protective equipment and emergency procedures



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General measures

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55 GALLON

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Safety Data Sheet

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Do not breathe gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Use only non-sparking tools. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Storage conditions : Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store locked up. Keep cool. Keep away from heat, sparks, and flame.

7.3. Not available.

8.1. Control parameters

| Acetone (67-64-1) | | |
|--------------------------|-------------------------------------|------------------------|
| USA ACGIH | ACGIH TWA (ppm) | 500 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 750 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 2400 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |

| n-Heptane (142-82-5) | | |
|-----------------------------|-------------------------------------|------------------------|
| USA ACGIH | ACGIH TWA (ppm) | 400 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 500 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 2000 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 500 ppm |

| Xylenes (o-, m-, p- isomers) (1330-20-7) | | |
|---|-------------------------------------|-----------------------|
| USA ACGIH | ACGIH TWA (ppm) | 100 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 150 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 435 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

| Toluene (108-88-3) | | |
|---------------------------|--------------------------|---------|
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| USA OSHA | OSHA PEL (STEL) (ppm) | 150 ppm |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 300 ppm |

8.2.

Exposure controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear chemically resistant protective gloves.



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Eye protection

Skin and body protection

Respiratory protection

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according to the Hazard Communication Standard (CFR29, 1910, 1201) HazCom 2012

: Safety glasses or goggles are recommended when using product.

Wear suitable protective clothing.

A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



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Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

Safety Data Sheet

according to the Hazard Communication Standard, 29 CFR 1910.1201, revised in 2012.

9.1. Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| Physical state | : Liquid |
| Appearance | : Clear. |
| Colour | : Colourless. |
| | |
| Odour | : Solvent. |
| Odour threshold | : No data available. |
| pH | : No data available. |
| Relative evaporation rate (butylacetate=1) | : No data available. |
| Melting point | : No data available. |
| Freezing point | : No data available. |
| Boiling point | : ~ 56 °C (~ 133 °F) (Acetone) |
| Flash point | : ~ -20 °C (~ -4 °F) (Acetone) |
| Self ignition temperature | : No data available. |
| Decomposition temperature | : No data available. |
| Flammability (solid, gas) | : Flammable |
| Vapour pressure | : No data available. |
| Relative vapour density at 20 °C | : No data available. |
| Relative density | : 0.730 - 0.745 |
| Solubility | : No data available. |
| Log Pow | : No data available. |
| Log Kow | : No data available. |
| Viscosity, kinematic | : No data available. |
| Viscosity, dynamic | : No data available. |
| Explosive properties | : No data available. |
| Oxidising properties | : No data available. |
| Explosive limits | : No data available. |

9.2. No additional information available

10.1. **Reactivity**
No dangerous reaction known under conditions of normal use.

10.2. **Chemical stability**
Stable under normal storage conditions. May form flammable/explosive vapour-air mixture.

10.3. **Possibility of hazardous reactions**
No dangerous reaction known under conditions of normal use.

10.4. **Conditions to avoid**
Heat. Incompatible materials. Open flame.

10.5. **Incompatible materials**
Acids. Amines. Bases. Oxidizers.

10.6. **Hazardous decomposition products**
May include, and are not limited to: oxides of carbon.

11.1. **Information on toxicological effects**
Acute toxicity : Not classified



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| 4655 Safety Data Sheet | |
|----------------------------|---|
| LD50 oral rat | > 2000 mg/kg <small>according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012</small> |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 20 mg/l/4h |
| Acetone (67-64-1) | |
| LD50 oral rat | 5800 mg/kg |
| LC50 inhalation rat (mg/l) | 50100 mg/m ³ /8h |

| n-Heptane (142-82-5) | |
|--|--------------------------|
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 inhalation rat (mg/l) | 103 g/m ³ /4h |
| Xylenes (o-, m-, p- isomers) (1330-20-7) | |
| LD50 oral rat | 4300 mg/kg |
| LD50 dermal rabbit | > 1700 mg/kg |
| LC50 inhalation rat (ppm) | 5000 ppm/4h |
| LC50 inhalation rat (mg/l) | 47635 mg/l/4h |
| Toluene (108-88-3) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | 12124 mg/kg |
| LD50 dermal rabbit | 8390 mg/kg |
| LC50 inhalation rat (mg/l) | 28.1 mg/l/4h |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | : Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Based on available data, the classification criteria are not met. |

Xylenes (o-, m-, p- isomers) (1330-20-7)

IARC group 3

Toluene (108-88-3)

IARC group 3

| | |
|--|--|
| Reproductive toxicity | : Suspected of damaging the unborn child. |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Symptoms/injuries after inhalation | : May cause drowsiness, dizziness and central nervous system depression. May cause respiratory irritation. |
| Symptoms/injuries after skin contact | : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting. |

12.1. Toxicity

Ecology – general : May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

| 4655 | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| 4655 | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available



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13.1. Waste treatment methods

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Waste disposal recommendations

This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information

: Handle empty containers with care because residual vapours are flammable.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

In accordance with DOT

14.1. UN number

UN-No. : UN1993

14.2. UN proper shipping name

Proper Shipping Name : Flammable liquids, n.o.s. (Acetone, Heptane)
Department of Transportation Hazard Classes : 3
Hazard labels :



Packing group (DOT) : II

14.3.

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

15.1. US Federal regulations

Acetone (67-64-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

Heptane, branched, cyclic and linear (426260-76-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

n-Heptane (142-82-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

Xylenes (o-, m-, p- isomers) (1330-20-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting | 1.0 %

Toluene (108-88-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting | 1.0 %

15.2. US State regulations

4655

State or local regulations

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

IARC | International Agency for Research on Cancer.



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Safety Data Sheet
 1 - Carcinogenic to humans;
 2A - Probably carcinogenic to humans;
 2B - Possibly carcinogenic to humans;
 3 - Not classifiable;
 4 - Probably not carcinogenic to humans.

| | |
|------------|--|
| NTP | National Toxicology Program. |
| | 1 - Evidence of Carcinogenicity; 2 - Known Human Carcinogens; 3 - Reasonably anticipated to be Human Carcinogen; 4 - Substances delisted from report on Carcinogens; 5 - Twelfth Report - Items under consideration. |



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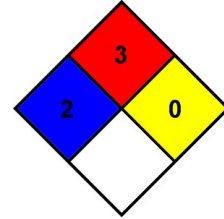
Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Indication of changes : None.
Date of issue : 03/28/2014
Other information : None.

: 2

NFPA health hazard : 2
NFPA fire hazard : 3
NFPA reactivity : 0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product