

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT Enviro-Tek Power Steering Flush

MSDS DATE:12/12/09

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Power Steering Flush
SYNONYMS:
PRODUCT CODES:

MANUFACTURER: MMJ Marketing
DIVISION:
ADDRESS: 380 Wingo Heights Road Spartanburg , SC 29305
Unit # 5a
EMERGENCY PHONE: (864) 641-5478
CHEMTREC PHONE:
OTHER CALLS:
FAX PHONE: (864) 578-2720

CHEMICAL NAME:
CHEMICAL FAMILY:
CHEMICAL FORMULA:

PRODUCT USE:
PREPARED BY: Mark Saville

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Classification

Indications of danger : Harmful

R-phrases :

Harmful: may cause lung damage if swallowed.

Vapours may cause drowsiness and dizziness.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3: HAZARDS IDENTIFICATION

Chemical characterization (preparation)

Detergents, Dispersants	Sum of ingredients:	25 - 60 %
Anti Friction Components		
Synthetic agent combinations		
Solvent mixture		
Additives ashless		

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
265-194-3	64742-91-2	Distillates (petroleum, gasoline),	< 35 %	Xn R65
265-191-7	64742-88-7	Solvent naphtha (petroleum, gasoline), medium aliph., Straight run petroleum (gasoline)	< 30 %	Xn R65
265-199-0	64742-95-6	mixture of hydrocarbons (aromatic)	< 20 %	Xn, Xi, N R10-37- 65-66-67-51-53
265-099-7	64741-98-6	Extracts (petroleum, gasoline), heavy naphtha solvent	< 20 %	Xn R65
265-149-8	64742-47-8	Distillates (petroleum, gasoline), hydrotreated light	< 10 %	Xn R65
	N/A	amine salt of a dialkyl dithio phosphoric acid	5 - 10 %	N R51-53

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SECTION 4: FIRST AID MEASURES

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .
Subsequently wash again with: Water and soap.
Seek medical attention if problems persist.

After contact with eyes

Remove contact lenses.
Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. After
ingestion of absorption substances: Consult physician.

After ingestion

Let water be swallowed in little sips (dilution effect). Consult physician.
Do not induce vomiting.

Advice to doctor

Warning about danger of aspiration.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media

Extinguishing powder.
Sand.

Carbon dioxide (CO2).
alcohol resistant foam.

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Formation of decomposition products possible.
In case of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Cool endangered container in case of fire.
Beat down gas/vapours/mist with water spray.
Contaminated fire-fighting water must be collected separately.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear a self-contained breathing apparatus and chemical resistant suit.
Keep away from sources of ignition. No smoking.
Do not breathe gas/fumes/vapour/spray.

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Environmental precautions

Beat down gas/vapours/mist with water spray.
Do not empty into drains or the aquatic environment.
In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

SECTION 7: HANDLING AND STORAGE

Handling

Advice on safe handling

Material must only be handled in closed installations or systems. Vapours / aerosols must be extracted by suction immediately at point of origin.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking.
Take precautionary measures against static discharges.

Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Do not store at temperatures over: 50 °C
Take precautionary measures against static discharges.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Exposure controls

Protective and hygiene measures

Take off immediately all contaminated clothing
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin and eyes.
Keep away from food, drink and animal feeding stuffs.
When using do not eat, drink or smoke.
"Wash hands when done working with material; at breaks, lunch, shift changes, etc."

Respiratory protection

Provide for good ventilation, when develop aerosols/mist.
In case of fire: Wear self-contained breathing apparatus.

Hand protection

Tested protective gloves are to be worn: NBR (Nitrile rubber). FKM (Fluoroelastomer (Viton)). (EN374)

Eye protection

Wear tightly sealed safety glasses against possible splashes into the eyes. (EN 166)

Skin protection

Wear suitable solvent-proof protective clothing according to EN 465.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General information

Physical state : liquid
Colour : yellow
Odour : aromatic

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Important health, safety and environmental information

Changes in the physical state

Boiling point :	Test method
Flash point :	180 - 220 °C
Lower explosion limits :	63 °C
Upper explosion limits :	
Vapour pressure :	20 hPa
(at 20 °C)	
Density (at 20 °C) :	0.82 - 0.90 g/cm ³
Water solubility :	insoluble
(at 20 °C)	
Solubility in other solvents :	Organic solvents
Other information	
Ignition temperature :	> 200 °C

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid

Only use material in places where open light, fire and other sources of ignition can be kept away.
No decomposition when used as intended.

Materials to avoid

Oxidizing agents. acid, concentrated. Alkalis (alkalis), concentrated.

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

observations relevant to classification: (LD50-values):
mixture of hydrocarbons (aromatic) C9-C10 :
oral LD50 > 2000 mg/Kg(rat)
dermal LD50 > 2000 mg/Kg (rabbit)
inhalant LC50 > 5,5 mg/l / 4h (rat)

Corrosive and irritant effects

After skin contact: Frequently or prolonged contact with skin may cause dermal irritation.
Irritation of eyes: Irritant effect possible.

Sensitising effects

no danger of sensitization.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

mixture of hydrocarbons (aromatic) C9-C10 :
Fish, LC50, 1-10 mg/l
Algae, IC50, 1-10 mg/l

Persistence and degradability

Product is partially biodegradable.

Bioaccumulative potential

Low potential of bio-accumulation.

Further information

Do not empty into drains or the aquatic environment.

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SECTION 13: DISPOSAL CONSIDERATIONS

Advice on disposal

Do not dispose with household waste.
Do not empty into drains or the aquatic environment.
Arrange about the exact waste code with the local waste disposal expert.
Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Contaminated packaging

Container must be completely emptied.
Do not pierce, cut up or weld unclean container. (Explosion hazard.)

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

Remarks (land transport)

Not a hazardous material with respect to transportation regulations.

Inland waterways transport

Remarks (inland waterways transport)

Not a hazardous material with respect to transportation regulations.

Marine transport

Remarks (marine transport)

Not a hazardous material with respect to transportation regulations.

Air transport

Remarks (air transport)

Not a hazardous material with respect to transportation regulations.

SECTION 15: REGULATORY INFORMATION

Labelling

Danger symbols : Xn – Harmful



Xn – Harmful

Hazardous component(s) to be indicated on label

Solvent naphtha (petroleum, gasoline), medium aliph., Straight run petroleum (gasoline) mixture of hydrocarbons (aromatic) C9-C10

R phrases

65 Harmful: may cause lung damage if swallowed.
67 Vapours may cause drowsiness and dizziness.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

02 Keep out of the reach of children.
46 If swallowed, seek medical advice immediately and show this container or label.

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National regulatory information

Water contaminating class : 2 - water contaminating

SECTION 16: OTHER INFORMATION

10	Flammable
37	Irritating to respiratory system.
51	Toxic to aquatic organisms.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.