SAFETY DATA SHEET

VSPE POWER PLUS ONE SHOT

Compilation date: 23/05/2016

Revision date: 07/08/2019

Revision No: 1b

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

1.1. Product identifier

Product name: VSPE POWER PLUS ONE SHOT

Product code: 7916

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Millers Oils Ltd
Hillside Oilworks
Rastrick Common
Brighouse
West Yorkshire
HD6 3DP
United Kingdom

Tel: +44 (0)1484 713201

Fax: +44 (0)1484 721263

Email: h.s@millersoils.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0)1484 713201

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Dam. 1: H318; Repr. 1B: H360FD; Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Skin Irrit. 2: H315

Most important adverse effects: May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. May damage fertility. May damage the unborn child. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H318: Causes serious eye damage.

[cont...]

H360FD: May damage fertility. May damage the unborn child.

H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS05: Corrosion

GHS08: Health hazard

GHS09: Environmental

GHS07: Exclamation mark

Signal words: Danger

Precautionary statements: P102: Keep out of reach of children.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302+352: IF ON SKIN: Wash with plenty of water/.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Other hazards: Danger of serious damage to health by prolonged exposure.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS - REACH registered number(s): 01-2119456620-43-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
926-141-6	64742-47-8	-	Asp. Tox. 1: H304	50-70%

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC

918-811-1	-	-	STOT SE 3: H336; Asp. Tox. 1: H304; Aquatic Chronic 2: H411	1-10%

2-ETHYLHEXANOL - REACH registered number(s): 01-2119487289-20-XXXX

203-234-3	-	-	Acute Tox. 4: H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335	1-10%

POTASSIUM 1,2-BIS(2-ETHYLHEXYLOXYCARBONYL)-ETHANESULPHONATE

231-308-5	7491-09-0	-	Skin Irrit. 2: H315; Eye Dam. 1: H318	1-10%

[cont...]

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE - REACH registered number(s): 01-2119463583-34-XXXX

918-811-1	-	-	Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 2: H411; -: EUH066	1-10%

AMIDES, C16-18 AND C18-UNSATD.,N,N-BIS(HYDROXYETHYL) - REACH registered number(s): 01-2119951823-33

271-653-9	68603-38-3	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 2: H411	1-10%

REACTION MASS OF 2,6-DI-TERT-BUTYLPHENOL AND 2,4,6-TRI-TERT-BUTYLPHENOL - REACH registered number(s): 01-2119538013-51

204-884-0	128-39-2	-	Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	1-10%

DICYCLOPENTADIENYL IRON

203-039-3	102-54-5	-	Flam. Sol. 2: H228; Acute Tox. 4: H302; Repr. 1B: H360FD; STOT RE 2: H373; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Aquatic Chronic 2: H411; Acute Tox. 4: H332	<1%

NAPHTHALENE

202-049-5	91-20-3	-	Carc. 2: H351; Acute Tox. 4: H302; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	<1%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be coughing and a sore throat.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises. Show this safety data sheet to the doctor in attendance.

[cont...]

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Carbon dioxide. Alcohol resistant foam. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Evacuate the area immediately.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

[cont...]

Hazardous ingredients:

2-ETHYLHEXANOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	106.4 mg/m3	Workers	Local
DNEL	Dermal	23 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	53.2 mg/m3	Workers	Systemic
DNEL	Inhalation	53.2 mg/m3	Consumers	Local
DNEL	Dermal	11.4 mg/kg bw/day	Consumers	Systemic
DNEL	Inhalation	2.3 mg/m3	Consumers	Systemic
DNEL	Oral	1.1 mg/kg bw/day	Consumers	Systemic

POTASSIUM 1,2-BIS(2-ETHYLHEXYLOXYCARBONYL)-ETHANESULPHONATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	13.4 mg/kg bw/day	-	-
DNEL	Inhalation	46.6 mgm3	-	-

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	12.5 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	151 mg/m3	Workers	Systemic
DNEL	Dermal (developmental tox)	7.5 mg/kg bw/day	Consumers	Systemic
DNEL	Inhalation (developmental tox)	32 mg/m3	Consumers	Systemic
DNEL	Oral (developmental tox)	7.5 mg/kg bw/day	Consumers	Systemic

AMIDES, C16-18 AND C18-UNSATD.,N,N-BIS(HYDROXYETHYL)

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	73 mg/m3	Workers	Systemic
DNEL	Dermal	4.16 mg/m3	Workers	Systemic
DNEL	Inhalation	21.73 mg/kg bw/day	Consumers	Systemic
DNEL	Dermal	2.5 mg/kg bw/day	Consumers	Systemic
DNEL	Oral	6.25 mg/kg bw/day	Consumers	Systemic
PNEC	Fresh water	0.007 mg/l	-	-
PNEC	Fresh water sediments	0.973 mg/kg dwt	-	-
PNEC	Marine water	0.0007 mg/l	-	-
PNEC	Marine sediments	0.0973 mg/kg dwt	-	-
PNEC	Microorganisms in sewage treatment	830000 mg/l	-	-
PNEC	Soil (agricultural)	0.038 mg/kg dwt	-	-

[cont...]

REACTION MASS OF 2,6-DI-TERT-BUTYLPHENOL AND 2,4,6-TRI-TERT-BUTYLPHENOL

Type	Exposure	Value	Population	Effect
DNEL	Dermal	0.5 mg/kg bw/day	Workers	-
DNEL	Inhalation	3.5 mg/m3	Workers	-
PNEC	Fresh water	0.3ug/l	-	-
PNEC	Marine water	0.3 ug/l	-	-
PNEC	Fresh water sediments	0.09 mg/kg dwt	-	-
PNEC	Marine sediments	0.009 mg/kg dwt	-	-
PNEC	Soil (agricultural)	0.044 mg/kg dwt	-	-
PNEC	Microorganisms in sewage treatment	2.4 mg/l	-	-

NAPHTHALENE

Type	Exposure	Value	Population	Effect
DNEL	Dermal (developmental tox)	3.57 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (developmental tox)	25 mg/m3	Workers	Systemic
DNEL	Inhalation (developmental tox)	25 mg/m3	Workers	Local

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Odour: Characteristic odour

Viscosity: Non-viscous

Kinematic viscosity: 2.52 cSt

Flash point°C: 60 - 93

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

[cont...]

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS

ORL	RAT	LD50	>5000	mg/kg
SKN	RBT	LD50	>2000	mg/kg

2-ETHYLHEXANOL

DERMAL	RBT	LD50	1970	mg/kg
ORAL	RAT	LD50	3730	mg/kg

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

DERMAL	RBT	LD50	2000	mg/kg
VAPOURS	RAT	4H LC50	>590	mg/m3

AMIDES, C16-18 AND C18-UNSATD.,N,N-BIS(HYDROXYETHYL)

ORAL	RAT	LD50	> 3000	mg/kg

NAPHTHALENE

ORL	MUS	LD50	316	mg/kg
ORL	RAT	LD50	490	mg/kg
SKN	RAT	LD50	>2500	mg/kg

[cont...]

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Reproductive toxicity	--	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be coughing and a sore throat.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS

-	72H IC50	1-3	mg/l
-	48H EC50	1.4	mg/l
-	96H LC50	2-5	mg/l

2-ETHYLHEXANOL

ALGAE	72H ErC50	11.5	mg/l
DAPHNIA	48H EC50	39	mg/l
FISH	96H LC50	10-33	mg/l

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

ALGAE	72H ErC50	1-3	mg/l
DAPHNIA	48H EC50	3-10	mg/l
FISH	96H LC50	2-5	mg/l

AMIDES, C16-18 AND C18-UNSATD.,N,N-BIS(HYDROXYETHYL)

DAPHNIA	48H EC50	1-10	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	1-10	mg/l

[cont...]

REACTION MASS OF 2,6-DI-TERT-BUTYLPHENOL AND 2,4,6-TRI-TERT-BUTYLPHENOL

ALGAE	72H ErC50	4.9	mg/l
DAPHNIA	48H EC50	0.4	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	0.3	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent Naphtha (Petroleum), Heavy Aromatic])

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

[cont...]

14.5. Environmental hazards

Environmentally hazardous: Yes **Marine pollutant:** No

14.6. Special precautions for user

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.
H228: Flammable solid.
H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H360FD: May damage fertility. May damage the unborn child.
H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
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.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.