Engine Flush

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Engine Flush
Product code	0106, 0179
Unique Formula Identifier (UFI)	NVK0-70J6-Q00E-XVU0

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

Identified Use(s)	Lubricating oil
Uses Advised Against	Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer	
Company Identification	Granville Oil & Chemicals Ltd
Address of Manufacturer	29 Goldthorpe Ind. Est., Goldthorpe, Rotherham, South Yorkshire,
Postal code	S63 9BL
Telephone:	+44 (0)1709 890099
Fax	Not known.
E-mail	lab@granvilleoil.com
Office hours	08:00 - 17:00
Supplier	
Company Identification	Veedol Deutschland GmbH
Address of Supplier	Hans-Böckler-Straße 10 Langenfeld, Germany
Postal code	40764
Telephone:	+49 (0) 2173 893 30 30
Fax	Not known.
E-mail	lab@granvilleoil.com
Office hours	

1.4 Emergency telephone number

Emergency Phone No.	+44 (0)1709 890099
Contact	Granville Lab

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.

2.2 Label elements

Engine Flush

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name	Engine Flush
Hazard Pictogram(s)	None.
Signal Word(s)	None.
Hazard Statement(s)	EUH208: Contains: (Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts) May produce an allergic reaction.
Precautionary Statement(s)	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.
Unique Formula Identifier (UFI)	NVK0-70J6-Q00E-XVU0

2.3 Other hazards

None known.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Distillates (petroleum), hydrotreated heavy paraffinicBaseoil - unspecified[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]	64742-54-7	265-157-1	86-89	Not classified	None
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)		298-577-9 01-	<2	Skin Irrit. 2 H315 Eye Dam. 1 H318	GHS05 GHS07

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		2119543726-33		Aquatic Chronic 2 H411	GHS09
Distillates (petroleum), hydrotreated heavy paraffinicBaseoil - unspecified[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.]		265-157-1 01-2119484627-25	<2	Asp. Tox. 1 H304	GHS08
Distillates (petroleum), solvent-dewaxed light paraffinicBaseoil - unspecified[A complex comination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).]		265-159-2 01-2119480132-48	<2	Asp. Tox. 1 H304	GHS08
Distillates (petroleum), solvent-dewaxed heavy paraffinicBaseoil - unspecified[A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).]		265-169-7 01-2119471299-27	<2	Asp. Tox. 1 H304	GHS08
Paraffin oils (petroleum), catalytic dewaxed heavyBaseoil - unspecified[A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).]		265-174-4 01-2119487080-42	<2	Asp. Tox. 1 H304	GHS08
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	274-263-7 01-	<1	Skin Sens. 1B H317	GHS07

		2119492616-28- XXXX			
Calcium dihydroxide	1305-62-0	215-137-3 01-2119475151-45- XXXX	<0.1	Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335	GHS05 GHS07

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit		M-factor	ATE
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)		Skin Irrit. 2	C>= 6.25 <= 100.00		
		Eye Dam. 1	C> 12.50 <= 100.00		
		Eye Irrit. 2	C> 10.00 <= 12.50		

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash skin with water.
Eye Contact	Flush eyes with water for at least 15 minutes.
Ingestion	Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated. Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	Foam, CO_2 or dry Powder.
Unsuitable extinguishing media	Do not use water.

5.2 Special hazards arising from the substance or mixture

None anticipated. Heating may cause decomposition.

5.3 Advice for firefighters

As appropriate for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Not known.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3 Specific end use(s)

Not known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Calcium hydroxide	1305-62-0		5			
Calcium hydroxide - Respirable fraction	1305-62-0		1		4	

Region	Source
United Kingdom	UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark	Notes

8.2 Exposure controls

8.2.1. Appropriate engineering controls — Ensure adequate ventilation.

8.2.2. Personal protection equipment

	Eye Protection	Wear eye protection with side protection (EN166).
	Skin protection	Wear Impervious Gloves (EN374)
	Respiratory protection	Normally no personal respiratory protection is necessary.
	Thermal hazards	None known.
8.2.3. Environmental Exposure Controls		Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Amber
Odour	Characteristic odour.
Melting point/freezing point	Not known.
Boiling point or initial boiling point and boiling range	Not known.
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	>200 °C
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	≥30 mm²/s 40 °C
Solubility	Solubility (Water) : Not known. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Density and/or relative density	0.88 g/cm³ - Relative density: 15 °C
Relative vapour density	Not known.
Particle characteristics	Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion	Calculation method : Not classified.
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Calculation method : Not classified.
Serious eye damage/irritation	Calculation method : Not classified.
Skin sensitization data	Calculation method : Not classified.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Calculation method : Not classified.
Reproductive toxicity	Calculation method : Not classified.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : Not classified.

11.2 Information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose at suitable refuse site.

13.2 Additional Information

No special precautions are required for this product.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Maritime transport in bulk according to IMO instruments

Not known

SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation	Not listed
REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Carcinogens: category 1B (64742-54-7), Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) (), Distillates (petroleum), hydrotreated heavy paraffinicBaseoil - unspecified[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.] (), Distillates (petroleum), solvent-dewaxed light paraffinicBaseoil - unspecified[A complex comination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).] (), Distillates (petroleum), solvent-dewaxed heavy paraffinicBaseoil - unspecified[A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (), Paraffin oils (petroleum), catalytic dewaxed heavyBaseoil - unspecified[A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).] (), Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0), Calcium dihydroxide (1305-62-0)
Community Rolling Action Plan (CoRAP)	Not listed
Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants	Not listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer	Not listed
Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals	Not listed

National regulations

Other	Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

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LEGEND

Hazard Pictogram(s)	None.
	GHS05: GHS: Corrosion
	GHS07: GHS: Exclamation mark
	GHS08: GHS: Health hazard
	GHS09: GHS: Environment
Hazard classification	Asp. Tox. 1 : Aspiration hazard, Category 1
	Skin Irrit. 2 : Skin corrosion/irritation, Category 2
	Skin Sens. 1B : Skin sensitization, Category 1B
	Eye Dam. 1 : Serious eye damage/irritation, Category 1
	STOT SE 3 : Specific target organ toxicity — single exposure, Category 3
	Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2
Hazard Statement(s)	H304: May be fatal if swallowed and enters airways.
	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H318: Causes serious eye damage.
	H335: May cause respiratory irritation.
	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	None.
Acronyms	ATE : Acute Toxicity Estimate
	CAS : Chemical Abstracts Service
	CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
	DNEL : Derived No Effect Level
	EC : European Community
	EINECS : European Inventory of Existing Commercial Chemical Substances
	LTEL : Long term exposure limit
	PBT : Persistent, Bioaccumulative and Toxic
	PNEC : Predicted No Effect Concentration
	REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
	STEL : Short term exposure limit
	STOT : Specific Target Organ Toxicity
	vPvB : very Persistent and very Bioaccumulative

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Key literature references and sources for data used to compile the SDS	Regulation (EC) No. 1272/2008 (CLP)
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