



1. Identification of Substance and Company

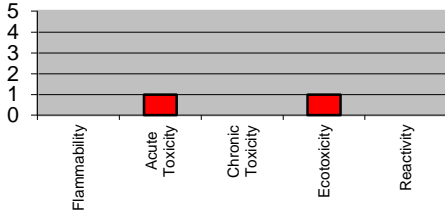

Product Name:	STP Engine Stop Leak
Other Names:	Not applicable
HSNO Approval:	Fuel Additives (Subsidiary Hazard) Group Standard 2006, HSR002585
UN Number:	Not applicable
Hazchem Code:	1T (recommended)
Uses:	Automotive maintenance product

Company Details

Company:	Spectrum Brands New Zealand Limited
Address:	Level one, 8 Hugo Johnson Drive, Penrose, 1061, Auckland, New Zealand
Telephone Number:	+64-9-571-7700
Emergency Telephone Number:	0800 764 766

2. Hazard Identification

Hazard Classifications

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval Fuel Additives (Subsidiary Hazard) Group Standard 2006, HSR002585), and is classified as follows:	Degree of hazard:
Classes 6.3B, 6.4A, 9.1D	
Symbols: WARNING 	

Other classifications

Not considered hazardous under other New Zealand or international legislation.

Hazard and Precautionary Statements

Hazard Statements	Causes mild skin irritation. Causes eye irritation. May cause long lasting harmful effects to aquatic life."
Precautionary Statements	Read label before use. Wash hands thoroughly after handling. Wear eye/face protection. Avoid release to the environment.
Further precautionary statements can be found in Section 4 – First Aid.	

3. Composition/Information on Ingredients

Component	CAS No	Proportion
Mineral oil	Mixture	60-100%
Zinc alkyl dithiophosphate	68649-42-3	1-5%
Branched alkylphenol	proprietary	0.1-1%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (24 hr emergency service).

Recommended first aid facilities	Ready access to running water is required. Accessible eyewash is recommended.
-----------------------------------------	-------------------------------------------------------------------------------

Exposure

Swallowed:	IF SWALLOWED: Do NOT induce vomiting. Give a glass of water to drink. If concerned, contact a doctor.
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
Skin contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.
Inhaled:	No first aid measures normally required. However, if vapours or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists, seek medical advice.



<i>Advice to Doctor</i>							
No significant risk factors have been identified for this product.							
5. Firefighting Measures							
Fire and explosion hazards	There are no specific risks for fire/explosion for this chemical. It is classed as non-flammable.						
Suitable Extinguishing Substances	Use water fog, foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.						
Unsuitable extinguishing substances	Unknown.						
Protective Equipment	No special measures are required.						
Products of combustion	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen, and under some circumstances, oxides of nitrogen. Oxides of sulfur (sulfur dioxide is a respiratory hazard). Oxides of phosphorus. Water, aldehydes, alkyl mercaptans.						
Hazchem Code	1T (note: not a dangerous good)						
6. Accidental Release Measures							
Containment	If greater than 10000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to stormwater.						
Emergency procedures	If a significant spill occurs: Stop leak if safe/necessary; Isolate area. Collect spill – see below; Transfer to container for disposal. Dispose of according to guidelines below (Section 13).						
Clean-up method	This product is not considered flammable or ecotoxic. Small spills do not require any special clean up method. Larger spills should be mopped up and collected.						
Disposal	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.						
Precautions	No special protective clothing is normally necessary. Caution: Slip hazard.						
7. Handling and Storage							
Storage	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.						
Handling	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.						
8. Exposure Controls/Personal Protection Equipment							
<i>Workplace Exposure Standards</i>							
A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10mg/m ³ for dusts and mists when limits have not otherwise been established.							
NZ Workplace Exposure Standards (2016).	<table border="1"><thead><tr><th>Ingredient</th><th>WES- TWA</th><th>WES- STEL</th></tr></thead><tbody><tr><td>Oil, mist</td><td>5mg/m³</td><td></td></tr></tbody></table>	Ingredient	WES- TWA	WES- STEL	Oil, mist	5mg/m ³	
Ingredient	WES- TWA	WES- STEL					
Oil, mist	5mg/m ³						
<i>Engineering Controls</i>							
In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.							
<i>Personal Protective Equipment</i>							
Eyes	Product is mildly irritating to eyes – glasses are not required for normal use - use eye protection when using this product in bulk.						
Skin	Impermeable protective gloves, e.g. nitrile or neoprene gloves should be worn when you are using this product, to prevent irritation. This product is essentially safe to use without special protective clothing. However, its use is recommended as a good industrial practice. Clean overalls or protective clothing should be worn, preferably with an apron.						
Respiratory	Respirator is not required under normal use. If product is being used in confined conditions, the use of a respirator with an organic vapour cartridge with a particulate filter may be preferred.						



9. Physical and Chemical Properties	
Appearance	Light brown liquid
Odour	Mild petroleum odour
pH	No data
Vapour pressure	No data. Is expected to be low
Boiling point	No data
Viscosity	130-215 cSt at 100°C
Volatile materials	>95%
Softening/melting point	No data
Solubility	Insoluble in water
Specific gravity or density	0.8744
Flash point	135°C (closed cup)
Upper & lower flammable limits	Not explosive
Auto ignition temperature	Non flammable
Corrosiveness	Non corrosive
10. Stability and Reactivity	
Stability	This product is unlikely to react or decompose under normal storage conditions. This product will not undergo polymerisation reactions.
Conditions to be avoided	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
Incompatible materials	Strong oxidising and reducing agents.
Hazardous decomposition products	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen, and under some circumstances, oxides of nitrogen. zinc oxide and hydrogen sulfide.
Hazardous reactions	No specific hazards.
11. Toxicological Information	
<i>Summary</i>	
IF IN EYES: Direct contact may cause eye irritation with redness, tearing and pain.	
IF ON SKIN: Prolonged or repeated contact may cause defatting and drying of the skin and dermatitis.	
IF SWALLOWED: may cause gastrointestinal irritation with nausea, vomiting and diarrhea.	
IF INHALED: Inhalation of mists or vapors generated at elevated temperatures may cause upper respiratory tract irritation.	
<i>Supporting Data</i>	
Acute:	
Oral:	The LD ₅₀ of this mixture is expected to be >5000mg/kg, no evidence of toxicity in the ingredients. Data considered: Zinc alkyl dithiophosphate: LD ₅₀ Oral Rat: 2230-3100 mg/kg, Mineral Oil: LD ₅₀ Oral Rat: >5,000 mg/kg
Dermal:	Data: Mineral Oil: LD ₅₀ Skin Rabbit: >5000 mg/kg Zinc alkyl dithiophosphate: LD ₅₀ Skin Rat >2000 mg/kg
Inhaled:	No evidence of inhalation toxicity, low volatility.
Eye:	The mixture is considered to be an eye irritant, because some of the ingredients (Zinc alkyl dithiophosphate) present are considered eye irritants in more concentrated form.
Skin:	The mixture is considered to be a mild skin irritant, because some of the ingredients (Zinc alkyl dithiophosphate) present are considered skin irritants in more concentrated form.
Chronic:	
Sensitisation:	No ingredient present at concentrations > 0.1% is considered a sensitizer.
Mutagenicity:	ingredient present at concentrations > 0.1% is considered a mutagen.
Carcinogenicity:	No ingredient present at concentrations > 0.1% is considered a carcinogen.
Reproductive / Developmental:	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
Systemic:	No ingredient present at concentrations > 1% is considered a target organ toxicant.
Aggravation of Existing Conditions:	Because of its defatting properties, this product may aggravate an existing dermatitis.
12. Ecological Data	
<i>Summary</i>	
Limited data available on the mixture. This product is harmful to aquatic life with long-lasting effects. This product contains components which may be persistent in the environment. this product should not be discharged into the sewer or waterways.	
<i>Supporting Data</i>	
Aquatic	Limited data available on the product.
Bioaccumulation	This product is biodegradable.
Degradability	This product contains components which may be persistent in the environment.
Soil	No evidence of soil toxicity.
Terrestrial Vertebrate	This product is not considered harmful to terrestrial vertebrates. No LC ₅₀ (diet) data for ingredients are available and the classification is based on the LD ₅₀ (oral) – see section 11 – oral toxicity.
Terrestrial Invertebrate	No evidence of toxicity towards terrestrial invertebrates.
Biocidal	Not designed as a biocide.



13. Disposal Considerations			
Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.		
Disposal method	This product may be recycle if unused. Dispose of contaminated product and/or empty container to landfill.		
Contaminated Packaging	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.		
14. Transport Information			
Transport according to NZS 5433 (Transport of Hazardous Substances on Land). There are no specific restrictions for this product (not a dangerous good).			
UN Number	Not applicable	Proper Shipping Name	Not applicable
Class(es)	Not applicable	Packing group	Not applicable
Precautions	Not applicable	HAZCHEM code	1[T] (not a dangerous good)
15. Regulatory Information			
This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: Fuel Additives (Subsidiary Hazard) Group Standard 2006, HSR002585.			
<i>Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)</i>			
Key workplace requirements are:			
SDS	To be available within 10 minutes in workplaces storing >50L		
Labelling	No removal of labels and/or decanting of product into other containers can occur.		
Emergency plan	Required if > 1000L is stored.		
Approved handler	Not required		
Tracking	Not required		
Bunding & secondary containment	Required if > 10000L is stored.		
Signage	Required if > 10000L is stored.		
Location test certificate	Not required		
Flammable zone	Not required		
Fire extinguisher	Not required		
Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.			
<i>Other Legislation</i>			
In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.			
16. Other Information			
<i>Abbreviations</i>			
Approval Code	Approval Fuel Additives (Subsidiary Hazard) Group Standard 2006, HSR002585, Controls, ERMA. www.ermanz.govt.nz		
CAS Number	Unique Chemical Abstracts Service Registry Number		
Ceiling	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.		
Controls Matrix	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).		
EC50	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)		
EPA	Environmental Protection Authority (New Zealand)		
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters		
HSNO	Hazardous Substances and New Organisms (Act and Regulations)		
IARC	International Agency for Research on Cancer		
LEL	Lower Explosive Limit		
LD50	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).		
LC50	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)		
MSDS/SDS	Material Safety Data Sheet (or Safety Data Sheet)		
PES	Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including group standards).		



STP Engine Stop Leak

Safety Data Sheet

STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.
<i>References</i>	
Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
WES 2016	The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz .
WES 2002	Workplace Exposure Standards published by the Occupational Safety and Health Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under the Group Standard (HSNO approval) and may constitute a PES.
Other References	Suppliers MSDS
<i>Review</i>	
Date	Reason for Review
March 2005	New MSDS
May 2012	Change of company name, review of classification, review WES data, change EPA to EPA
November 2016	HSE to HSAW, new logo and company name, review of ecotox section.
<i>Disclaimer</i>	
This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on our experience, EPA Guidelines and international classifications. This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: (09) 940 30 80 .	
