

Safety Data Sheet

HiTEC® 11458 Performance Additive

SDS no.

H11458

Section 1. Identification

Product identifier : HiTEC® 11458 Performance Additive

Product use : Petrochemical industry: Lubricating Oil Additive.

Date of issue/Revisions : 13 July 2023

In case of emergency - Chemical

+1-703-527-3887 (International)

+65-3158-1349 (Asia Pacific)

+61-290372994 (Australia)

4001-204937 (China)

+81-345209637 (Japan)

00-308-13-2549 (South Korea)

+1-703-741-5979 (Spanish language)

+44-870-8200418 (UK)

1-800-424-9300 (ÙS & Canada)

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Section 2. Hazards identification

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

GHS label elements

Hazard pictograms

Signal word : Warning

Hazard statements : Causes mild skin irritation.

Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : Avoid release to the environment.

Response : If skin irritation occurs: Get medical advice or attention.

Storage : Store in a well-ventilated place.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do not result in classification

: When heated above 90°C (194°F), thermal decomposition may occur producing CO,

CO2, phosphorus oxides, metal oxide/ oxides, hydrogen sulfide.

Please note some GHS hazard classifications listed above may not be applicable in your country or region and are shown for informational purposes only.

For other GHS hazard classifications not listed above, the classification is not applicable in your region.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	CAS number	%	GHS Classification	Туре
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	≥15 - ≤25	Not classified.	[2]
bis(nonylphenyl)amine	36878-20-3	≥5 - ≤10	SKIN CORROSION/IRRITATION - Category 3	[1]
zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	2215-35-2	≥5 - ≤10	ACUTE TOXICITY (oral) - Category 5 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	[1]
Distillates (petroleum), hydrotreated	64742-54-7	≥3 - ≤5	ASPIRATION HAZARD - Category 1	[1]

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Section 3. Composition/information on ingredients

heavy paraffinic				[2]
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	≥3 - ≤5	ASPIRATION HAZARD - Category 1	[1] [2]
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	≥3 - ≤5	Not classified.	[2]
zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)	4259-15-8	≥1 - ≤3	ACUTE TOXICITY (oral) - Category 5 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Please note some GHS hazard classifications listed above may not be applicable in your country or region and are shown for informational purposes only.

Type

- [1] Substance classified with a physical, health or environmental hazard
- [2] Substance with a workplace exposure limit

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Inhalation

: If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if adverse health effects persist or are severe. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 15 minutes.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact : Causes mild skin irritation.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-

aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing

media

: In case of fire, use water spray (fog), foam, dry chemical or CO2.

Unsuitable

extinguishing media

: Do not use water jet.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides Hydrogen sulphide

Section 5. Firefighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Take precautions to limit storage vessel surface temperature to below 121°C (250°F).

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Section 7. Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

The following information is provided for health and safety purposes. Please refer to individual product specification documents for quality-related storage and handling. Preferred storage temperature is between ambient and 70°C.

Exposure to elevated temperatures will increase the rate of hydrogen sulfide (H2S) and mercaptan generation.

Temperatures above 90°C should be avoided unless an appropriate engineering review has been conducted on the process.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	Safe Work Australia (Australia, 12/2019). [Oil mist, refined mineral] TWA: 5 mg/m³ 8 hours. Form: Mist
Distillates (petroleum), hydrotreated heavy paraffinic	Safe Work Australia (Australia, 12/2019). [Oil mist, refined mineral] TWA: 5 mg/m³ 8 hours. Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Safe Work Australia (Australia, 12/2019). [Oil mist, refined mineral] TWA: 5 mg/m³ 8 hours. Form: Mist
Distillates (petroleum), solvent-refined heavy paraffinic	Safe Work Australia (Australia, 12/2019). [Oil mist, refined mineral] TWA: 5 mg/m³ 8 hours. Form: Mist

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Hand Protection: Wear chemical resistant gloves. Nitrile gloves of minimum thickness 0.4 mm have an expected breakthrough time of 480 minutes or less when in frequent contact with the product. Due to variable exposure conditions the user must consider that the practical use of a chemical-protective glove in practice may be much shorter than the permeation time above. Manufacturer's directions for use, especially about the minimum thickness and the minimum breakthrough time, must be observed. This information does not replace suitability tests by the end user since glove protection varies depending on the conditions under which the product is used.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Physical state : Liquid. [Viscous]

Colour : Brown. [Dark]

Odour : Characteristic.

Odour threshold : Not available.

Physical state : Not available.

Melting point : Not available.

Boiling point : Not available.

Flash point : Closed cup: 135°C (275°F) [Pensky-Martens Minimum]

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper : Not available.

explosive (flammable)

limits

Vapour pressure : Not available.

Relative vapour density : Not available.

Vapour density : Not available.

Density : 0.97 g/cm³ [60.1°F (15.6°C)]

Relative density : 0.971

Solubility(ies) : Not available.

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Section 9. Physical and chemical properties

Partition coefficient: n-

artition coefficient: II-

: Not applicable.

octanol/water

Auto-ignition

: Not available.

temperature

Decomposition

: Not available.

temperature

Viscosity : Kinematic (40°C): 970 mm²/s (970 cSt)

Minimum

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63 cSt @ 100°C

Explosive properties

: Not available.

Oxidising properties

: Not available.

Particle characteristics

Median particle size

: Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : High temperatures, sparks, and open flames.

Incompatible materials: Strong oxidising and reducing agents.

Hazardous

decomposition products

Hydrogen sulphide

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Result	Species	Dose	Exposure	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	403 Acute Inhalation Toxicity 402 Acute	LC50 Inhalation Dusts and mists		>5.53 mg/l >5000 mg/kg	4 hours	Based on data for a similar substance. Based on data
	Dermal Toxicity 401 Acute Oral Toxicity	LD50 Oral		>5000 mg/kg	-	for a similar substance. Based on data for a similar
bis(nonylphenyl)amine	402 Acute Dermal Toxicity	LD50 Dermal	Rat	>2000 mg/kg	-	substance. Based on data for a similar substance.

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		_	-			
	401 Acute Oral	LD50 Oral	Rat	>5000 mg/kg	-	Based on data
	Toxicity					for a similar
	-					substance.
zinc O,O,O',O'-tetrakis	403 Acute	LC50 Inhalation	Rat	>2 mg/l	1 hours	Based on data
(1,3-dimethylbutyl) bis	Inhalation	Vapour				for a similar
(phosphorodithioate)	Toxicity	, s.p.s				substance.
(priospriorealameats)	402 Acute	LD50 Dermal	Rabbit	>25000 mg/kg	_	-
	Dermal Toxicity	LD00 Dcmai	Rabbit	20000 mg/kg		
	401 Acute Oral	LD50 Oral	Rat	2230 mg/kg		_
	Toxicity	LD30 Oral	Ital	ZZ30 mg/kg	_	_
Distillates (petroleum),	403 Acute	LC50 Inhalation	Rat	>5.53 mg/l	4 hours	
hydrotreated heavy paraffinic	Inhalation	Vapour	Nat	-5.55 Hig/i	4 110015	-
mydrotreated fleavy paramific		vapoui				
	Toxicity	I DEO Darmad	Dabbit	> 5000 //-		Deced on data
	402 Acute	LD50 Dermal	Rabbit	>5000 mg/kg	-	Based on data
	Dermal Toxicity					for a similar
				"		substance.
	401 Acute Oral	LD50 Oral	Rat	>5000 mg/kg	-	Based on data
	Toxicity					for a similar
						substance.
Distillates (petroleum),	403 Acute	LC50 Inhalation	Rat	>5.53 mg/l	4 hours	-
solvent-dewaxed heavy	Inhalation	Vapour				
paraffinic	Toxicity					
	402 Acute	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	Dermal Toxicity					
	401 Acute Oral	LD50 Oral	Rat	>5000 mg/kg	-	-
	Toxicity					
Distillates (petroleum),	403 Acute	LC50 Inhalation	Rat	>5.53 mg/l	4 hours	Based on data
solvent-refined heavy	Inhalation	Vapour				for a similar
paraffinic	Toxicity					substance.
	None available.	LD50 Dermal	Rabbit	>2000 mg/kg	_	-
	None available.	LD50 Oral	Rat	>5000 mg/kg	_	-
zinc bis[O,O-bis(2-ethylhexyl)]	402 Acute	LD50 Dermal	Rabbit	>5000 mg/kg	_	-
bis(dithiophosphate)	Dermal Toxicity			2300		
	401 Acute Oral	LD50 Oral	Rat	3100 mg/kg	_	_
	Toxicity	LD00 Olai	ı .aı	o roo mg/kg		
	TOAIGILY		l			

Conclusion/Summary

Irritation/Corrosion

Product/ingredient name	Test	Species	Result	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Not an Irritant	Based on data for a similar substance.
	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Not an Irritant	Based on data for a similar substance.
bis(nonylphenyl)amine	405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Not an Irritant	Based on data for a similar substance.
	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Mild irritant	Based on data for a similar substance.
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	None available.	Rabbit	Eyes - Visible necrosis	Not H319 at <15%. On basis of test data. Not H318 at <20%. On basis of test data.
	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Irritant	Not H315 at <15%. On basis of test data.
Distillates (petroleum), hydrotreated heavy paraffinic	405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Not an Irritant	Based on data for a similar substance.
	404 Acute Dermal	Rabbit	Skin - Not an Irritant	Based on data for a

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Based on available data, the classification criteria are not met.

Distillates (petroleum), solvent-dewaxed heavy paraffinic	Irritation/Corrosion 405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Not an Irritant	similar substance. Based on data for a similar substance.
	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Not an Irritant	Based on data for a similar substance.
Distillates (petroleum), solvent-refined heavy paraffinic	405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Not an Irritant	Based on data for a similar substance.
	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Not an Irritant	Based on data for a similar substance.
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Visible necrosis	Not H319 at <50%. On basis of test data. Not H318 at <80%. On basis of test data.
	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Not an Irritant	-

Skin

: Causes mild skin irritation.

Eyes

: Non-irritating to the eyes. Based on test data for this or similar products.

Respiratory

Based on available data, the classification criteria are not met.

Sensitisation

Product/ingredient name	Test	Route of exposure	Species	Result	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	406 Skin Sensitization	skin	Guinea pig	Not sensitizing	Based on data for a similar substance.
bis(nonylphenyl)amine	406 Skin Sensitization	skin	Guinea pig	Not sensitizing	Based on data for a similar substance.
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	406 Skin Sensitization	skin	Guinea pig	Not sensitizing	-
Distillates (petroleum), hydrotreated heavy paraffinic	406 Skin Sensitization	skin	Guinea pig	Not sensitizing	Based on data for a similar substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	406 Skin Sensitization	skin	Guinea pig	Not sensitizing	Based on data for a similar substance.
Distillates (petroleum), solvent-refined heavy paraffinic	406 Skin Sensitization	skin	Guinea pig	Not sensitizing	Based on data for a similar substance.
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	406 Skin Sensitization	skin	Guinea pig	Not sensitizing	-

Conclusion/Summary

Skin

: Based on available data, the classification criteria are not met.

Respiratory

Based on available data, the classification criteria are not met.

Mutagenicity

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Product/ingredient	Test	Experiment	Result	Remarks
name				
Distillates (petroleum), hydrotreated heavy paraffinic	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on data for a similar substance.
	473 In vitro Mammalian	Experiment: In vitro	Negative	Based on data for a
	Chromosomal Aberration Test	Subject: Mammalian-Animal		similar substance.
	476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative	Based on data for a similar substance.
	474 Mammalian Erythrocyte Micronucleus	Experiment: In vivo Subject: Mammalian-Animal	Negative	Based on data for a similar substance.
bis(nonylphenyl)amine	Test 471 Bacterial Reverse	Experiment: In vitro	Negative	Based on data for a
	Mutation Test 473 In vitro Mammalian	Subject: Bacteria Experiment: In vitro	Negative	similar substance. Based on data for a
	Chromosomal Aberration Test	Subject: Mammalian-Animal	Negative	similar substance.
	478 Genetic Toxicology:	Experiment: In vitro	Negative	Based on data for a
	Rodent Dominant Lethal Test	Subject: Mammalian-Animal	_	similar substance.
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Positive	Based on data for a similar substance. WOE does not support classification
	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on data for a similar substance.
	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal	Negative	Based on data for a similar substance.
Distillates (petroleum), hydrotreated heavy paraffinic	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on data for a similar substance.
Paramille	473 In vitro Mammalian	Experiment: In vitro	Negative	Based on data for a
	Chromosomal Aberration Test	Subject: Mammalian-Animal	rtoganvo	similar substance.
	476 In vitro Mammalian	Experiment: In vitro	Negative	Based on data for a
	Cell Gene Mutation Test	Subject: Mammalian-Animal		similar substance.
	474 Mammalian	Experiment: In vivo	Negative	Based on data for a
	Erythrocyte Micronucleus Test	Subject: Mammalian-Animal		similar substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on data for a similar substance.
	473 In vitro Mammalian Chromosomal Aberration	Experiment: In vitro Subject: Mammalian-Animal	Negative	Based on data for a similar substance.
Distillates (petroleum), solvent-refined heavy	Test 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	Based on data for a similar substance.
paraffinic	473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Negative	Based on data for a similar substance.
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	None available.	Experiment: In vitro Subject: Mammalian-Animal	Positive	WOE does not support classification
	471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative	-

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Section 11. Toxicological information

Erythrocyte Micronucleus Subject: Mammalian-Animal Test

Conclusion/Summary

Carcinogenicity

Product/ingredient name	Test	Species	Exposure	Result	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	451 Carcinogenicity Studies	Mouse	78 weeks	Negative - Dermal - NOAEL	Based on data for a similar substance.
Distillates (petroleum), hydrotreated heavy paraffinic	451 Carcinogenicity Studies	Mouse	78 weeks	Negative - Dermal - NOAEL	Based on data for a similar substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	451 Carcinogenicity Studies	Mouse	78 weeks	Negative - Dermal - NOAEL	Based on data for a similar substance.
Distillates (petroleum), solvent-refined heavy paraffinic	451 Carcinogenicity Studies	Mouse	78 weeks	Negative - Dermal - NOAEL	Based on data for a similar substance.

Conclusion/Summary

Reproductive toxicity

Product/ingredient name	Test	Route of exposure	Species	Maternal toxicity	Fertility	Developmental toxin	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative	Based on data for a similar substance.
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	422 Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative	Based on data for a similar substance.
Distillates (petroleum), hydrotreated heavy paraffinic	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative	Based on data for a similar substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	421 Reproduction/ Developmental Toxicity Screening Test	Dermal	Rat	Negative	Negative	Negative	Based on data for a similar substance.
	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative	Based on data for a similar substance.
Distillates (petroleum), solvent-refined heavy paraffinic	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative	Based on data for a similar substance.
zinc bis[O,O-bis (2-ethylhexyl)] bis (dithiophosphate)	421 Reproduction/ Developmental Toxicity Screening	Oral	Rat	Negative	Negative	Negative	-

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Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

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Test

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Section 11. Toxicological information

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Product/ingredient	Test	Species	Result	Remarks
name				
Distillates (petroleum), hydrotreated heavy paraffinic	414 Prenatal Developmental Toxicity Study	Rat	Negative - Dermal	Based on data for a similar substance.
bis(nonylphenyl)amine	414 Prenatal Developmental Toxicity Study	Rat	Negative - Oral	-
Distillates (petroleum), hydrotreated heavy paraffinic	414 Prenatal Developmental Toxicity Study	Rat	Negative - Dermal	Based on data for a similar substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	414 Prenatal Developmental Toxicity Study	Rat	Negative - Dermal	Based on data for a similar substance.
Distillates (petroleum), solvent-refined heavy paraffinic	414 Prenatal Developmental Toxicity Study	Rat	Negative - Dermal	Based on data for a similar substance.

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

<u>Specific target organ toxicity (repeated exposure)</u>

Based on available data, the classification criteria are not met.

Aspiration hazard

Name	Result
7, 3	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

: Skin, Eyes, Ingestion, and Inhalation

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact : Causes mild skin irritation.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

redness

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Short term exposure

Potential immediate effects

: Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Ingestion may cause gastrointestinal irritation and diarrhoea.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate effects

: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

Potential delayed effects

: Not available.

Potential chronic health effects

Product/ingredient	Test	Species	Dose	Exposure	Result	Remarks
name						
Distillates (petroleum), hydrotreated heavy paraffinic	408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	125 mg/kg	-	Sub-chronic LOAEL Oral	Based on data for a similar substance.
	410 Repeated Dose Dermal Toxicity: 21/28-day Study	Rabbit	1000 mg/kg	-	Sub-acute NOAEL Dermal	Based on data for a similar substance.
	411 Subchronic Dermal Toxicity: 90-day Study	Rat	30 mg/kg	-	Sub-chronic NOAEL Dermal	Based on data for a similar substance.
	None available.	Rat	0.15 mg/l	13 weeks	Sub-chronic NOAEL Inhalation Dusts and mists	Based on data for a similar substance.
	None available.	Rat	0.22 mg/l	4 weeks	Sub-chronic NOAEL Inhalation Dusts and mists	Based on data for a similar substance.
bis(nonylphenyl)amine	408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	100 mg/kg	-	Sub-chronic LOAEL Oral	-
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	422 Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test	Rat	160 mg/kg	-	Sub-acute NOAEL Oral	Based on data for a similar substance.
Distillates (petroleum), hydrotreated heavy paraffinic	408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	125 mg/kg	-	Sub-chronic LOAEL Oral	Based on data for a similar substance.
	410 Repeated Dose Dermal Toxicity: 21/28-day Study	Rabbit	1000 mg/kg	-	Sub-acute NOAEL Dermal	Based on data for a similar substance.
	411 Subchronic Dermal Toxicity: 90-day Study	Rat	30 mg/kg	-	Sub-chronic NOAEL Dermal	Based on data for a similar substance.
	None available.	Rat	0.15 mg/l	13 weeks	Sub-chronic	Based on data

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					NOAEL Inhalation Dusts and mists	for a similar substance.
	None available.	Rat	0.22 mg/l	4 weeks	Sub-chronic NOAEL Inhalation Dusts and mists	Based on data for a similar substance.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	410 Repeated Dose Dermal Toxicity: 21/28-day Study	Rabbit	1000 mg/kg	-	Sub-acute NOAEL Dermal	Based on data for a similar substance.
	None available.	Rat	0.05 mg/l	13 weeks	Sub-chronic NOAEL Inhalation Vapour	-
Distillates (petroleum), solvent-refined heavy paraffinic	410 Repeated Dose Dermal Toxicity: 21/28-day Study	Rabbit	1000 mg/kg	-	Sub-acute NOAEL Dermal	Based on data for a similar substance.
	None available.	Rat	0.15 mg/l	13 weeks	Sub-chronic NOAEL Inhalation Vapour	Based on data for a similar substance.
	None available.	Rat	0.22 mg/l	28 days	Sub-acute NOAEL Inhalation Vapour	Based on data for a similar substance.
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	407 Repeated Dose 28-day Oral Toxicity Study in Rodents	Rat	125 mg/kg	-	Sub-acute NOAEL Oral	-

Conclusion/Summary: Not available.

General
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EL50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	Based on data for a similar substance.
	Acute LL50 >100 mg/	Fish - Pimephales promelas	96 hours	Based on data for a similar substance.
	Chronic NOEL ≥100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	Based on data for a similar substance.
	Chronic NOEL 10 mg/l	Daphnia - Daphnia magna	21 days	Based on data for a similar

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			•	1
	Chronic NOEL 1000 mg/l	Fish - Oncorhynchus mykiss	14 days	substance. QSAR result.
bis(nonylphenyl)amine	Acute EL50 >100 mg/	Algae - Pseudokirchneriella subcapitata	72 hours	-
	Acute EL50 >100 mg/	Daphnia - Daphnia magna	48 hours	-
	Acute IC50 >100 mg/l	_	3 hours	Based on data for a similar substance.
	Acute LL50 >100 mg/	Fish - Danio rerio	96 hours	Based on data for a similar substance.
	Chronic EL10 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	-
	Chronic EL10 4.12 mg/l Fresh water	Crustaceans - Daphnia magna	21 days	-
	Chronic NOEL 10 mg/l Fresh water	Fish - Danio rerio	34 days	-
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	Acute EL50 24 mg/l	Algae - Desmodesmus subspicatus	72 hours	Based on data for a similar substance.
,	Acute EL50 23 mg/l	Daphnia - Daphnia magna	48 hours	Based on data for a similar substance.
	Acute EL50 >10000 mg/l	Micro-organism	3 hours	Based on data for a similar substance.
	Acute LL50 4.5 mg/l	Fish - Oncorhynchus mykiss	96 hours	Based on data for a similar substance.
	Chronic NOEL 10 mg/l	Algae - Desmodesmus subspicatus	72 hours	Based on data for a similar substance.
	Chronic NOEL 0.4 mg/l	Daphnia - Daphnia magna	21 days	Based on data for a similar substance.
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EL50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	Based on data for a similar substance.
	Acute LL50 >100 mg/	Fish - Pimephales promelas	96 hours	Based on data for a similar substance.
	Chronic NOEL ≥100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	Based on data for a similar substance.
	Chronic NOEL 10 mg/l	Daphnia - Daphnia magna	21 days	Based on data for a similar substance.
	Chronic NOEL 1000 mg/l	Fish - Oncorhynchus mykiss	14 days	QSAR result.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EL50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	Based on data for a similar substance.
paramino	Acute LL50 >100 mg/	Fish - Pimephales promelas	96 hours	Based on data for a similar substance.
	Chronic NOEL ≥100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	Based on data for a similar

	Chronic NOEL 10 mg/l	Daphnia - Daphnia magna	21 days	substance. Based on data for a similar substance.
	Chronic NOEL 1000 mg/l	Fish - Oncorhynchus mykiss	14 days	QSAR result.
Distillates (petroleum), solvent-refined heavy paraffinic	Acute EL50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	Based on data for a similar substance.
	Acute LL50 >100 mg/	Fish - Pimephales promelas	96 hours	Based on data for a similar substance.
	Chronic NOEL ≥100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	Based on data for a similar substance.
	Chronic NOEL 10 mg/l	Daphnia - Daphnia magna	21 days	Based on data for a similar substance.
	Chronic NOEL 1000 mg/l	Fish - Oncorhynchus mykiss	14 days	QSAR result.
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	Acute EL50 410 mg/l	Algae - Desmodesmus subspicatus	72 hours	-
	Acute EL50 75 mg/l Acute EL50 380 mg/l	Daphnia - Daphnia magna Micro-organism	48 hours 16 hours	-
	Acute LL50 4.4 mg/l	Fish - Oncorhynchus mykiss	96 hours	-
	Chronic NOEL 220 mg/l	Algae - Desmodesmus subspicatus	72 hours	-
	Chronic NOEL 0.4 mg/l	Daphnia - Daphnia magna	21 days	Based on data for a similar substance.
	<u> </u>			casotarios.

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

Persistence and degradability

Product/ingredient name	Test	Result	Remarks
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F Ready Biodegradability - Manometric Respirometry Test	31 % - Not readily - 28 days	Based on data for a similar substance.
bis(nonylphenyl)amine	OECD 301C Ready Biodegradability - Modified MITI Test (I)	24 % - Not readily - 28 days	-
zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate)	OECD 301B Ready Biodegradability - CO2 Evolution Test	1.5 % - Not readily - 28 days	Based on data for a similar substance.
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F Ready Biodegradability - Manometric Respirometry Test	31 % - Not readily - 28 days	Based on data for a similar substance.

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Distillates (petroleum),	OECD 301F	31 % - Not readily - 28 days	Based on data for a similar
solvent-dewaxed heavy	Ready		substance.
paraffinic	Biodegradability -		
	Manometric		
	Respirometry		
	Test		
Distillates (petroleum),	OECD 301F	31 % - Not readily - 28 days	Based on data for a similar
solvent-refined heavy	Ready		substance.
paraffinic	Biodegradability -		
	Manometric		
	Respirometry		
	Test		
zinc bis[O,O-bis(2-ethylhexyl)]	OECD 301D	<5 % - Not readily - 27 days	-
bis(dithiophosphate)	Ready		
	Biodegradability -		
	Closed Bottle		
	Test		

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bis(nonylphenyl)amine Distillates (petroleum), solvent-refined heavy paraffinic	3.64 to 7.02 3.9 to 6	1730 -	high high
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	3.59	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Not available.

Hazardous to the ozone

: Not applicable.

aver

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport information

	UN	ADG	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class (es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

Section 15. Regulatory information

China

List of Goods banned for Importing

None of the components are listed.

List of Goods banned for Exporting

None of the components are listed.

List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

Singapore

Singapore - hazardous chemicals under government control

Ingredient name	Status
Anionic surface active agent	Listed

Australia

Standard for the Uniform Scheduling of Medicines and Poisons

Not applicable.

Model Work Health and Safety Regulations - Scheduled Substances

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Section 15. Regulatory information

No listed substance

<u>Japan</u>

Fire Service Law

Category	Substance name/Type	Danger category
Category IV	Class III petroleums	III

Industrial Safety and Health Act

Label Requirements and Chemicals Requiring Notification

Ingredient name	%
	≥25 - ≤35 ≥0.50 - ≤1.0

Chemical Substances Control Law (CSCL)

Ingredient name	%	Reference number
None of the components are listed.		

Poisonous and Deleterious Substances

None of the components are listed.

Pollutant Release and Transfer Registers (PRTR)

None of the components are listed.

Japan - Water Pollution Control Law

Ingredient name

n-Hexane Extracts (mineral oil)

Zinc compounds

Linear Benzenesulfonic acid and its salt

Linear Benzenesulfonic acid and its salt

Boron compounds

Korea

Regulation according to ISHA

: None of the components are listed. **ISHA** article 117

: None of the components are listed.

(Harmful substances

prohibited from

manufacture)

ISHA article 118

(Harmful

substances

requiring

permission)

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Section 15. Regulatory information

Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject

to control)

: The following components are listed: zinc and its compounds

Ingredient name

Remarks

ISHA Enforcement Regs Annex 19 (Exposure

toluene benzene ethylene oxide Impurity (<0.1%) Impurity (<0.1%) Impurity (<0.005%)

(Exposure standards established for harmful factors)

ISHA Enforcement

: None of the components are listed.

Regs Annex 21 (Harmful factors subject to Work Environment Measurement)

ISHA Enforcement

: metal working fluids: oil mist, mineral

Regs Annex 22 (Harmful Factors Subject to Special Health Check-up)

Wastes regulation : Designated waste

Regulation according to K-REACH/CCA

Chemical name % Remarks

K-REACH/CCA : diphenylamine <0.1 Impurity

Toxic chemicals

K-REACH/CCA -

: None of the components are listed.

Banned

K-REACH/CCA : None of the components are listed.

Restricted

K-REACH/CCA: The following components are listed: Boron compounds, Zinc and its compounds

Article - TRI

Dangerous Materials: Class: Class 4 - Flammable Liquid

Safety Management Item: 5. Class 3 petroleums - Water-insoluble liquid

Act Threshold: 2000 L
Danger category: |||

Signal word: Contact with sources of ignition prohibited

International Inventory Status

Australia (AIIC) : All components are listed or exempted.
Canada (DSL/NDSL) : All components are listed or exempted.
China (IECSC) : All components are listed or exempted.

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Europe (REACh) : For information on compliance with this regulation please contact your Afton representative

(EHS.CustomerVolumes@AftonChemical.com).

: All components are listed or exempted. Japan (ENCS) Republic of Korea : All components are listed or exempted.

(ECL)

New Zealand (NZIoC) : All components are listed or exempted. Philippines (PICCS) : All components are listed or exempted.

Switzerland (SWISS) : For information on compliance with this regulation please contact your Afton representative

(EHS.CustomerVolumes@AftonChemical.com).

Turkey (KKDIK) : For information on compliance with this regulation please contact your Afton representative

(EHS.CustomerVolumes@AftonChemical.com).

Taiwan (TCSI)

United Kingdom (UK

REACh)

United States Active (TSCA)

: All components are listed or exempted.

: For information on compliance with this regulation please contact your Afton representative

(EHS.CustomerVolumes@AftonChemical.com).

: All components are active or exempted.

Section 16. Other information

History

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revision

EHS Department (Tel: +1 804 788 5800)

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations WOE = Weight of Evidence

Procedure used to derive the classification

Classification	Justification
SKIN CORROSION/IRRITATION - Category 3 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	

✓ Indicates information that has changed from previously issued version.

Notice to reader

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