# **SAFETY DATA SHEET**



GHS product identifier	:	CITGO RD-969 Diesel Engine Oil, SAE 40
Synonyms	:	Diesel engine oil
Material uses	:	Heavy Duty Engine Oil
Code	:	649069001

Relevant identified uses of the substance or mixture and uses advised against Not applicable.

Supplier's details	P H	CITGO Petroleum Corporation P.O. Box 4689 Jouston, TX 77210 dsvend@citgo.com
Emergency telephone number (with hours of operation)	N C	echnical Contact: (800) 248-4684 /edical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300 United States Only)

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	: Keep out of reach of children.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Do not get in eyes, on skin, or on clothing.
Response	: IF exposed or concerned: Get medical advice or attention. Wash with plenty of soap and water or use a recognized skin cleanser.
Storage	: Store in accordance with all local, regional, national and international regulations. Store locked up. Store in a dry place and a closed container. Empty containers may contain material residues which can ignite with explosive force. Misuse of empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material.



## Section 2. Hazards identification

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Hazards not otherwise classified

## Section 3. Composition/information on ingredients

: None known.

Substance/mixture	: Mixture
Other means of	: Diesel engine oil
identification	

## CAS number/other identifiers

CAS number	: Not applicable.
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Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥75 - ≤90	64742-54-7
Residual oils (petroleum), solvent-dewaxed	≤5	64742-62-7
Distillates (petroleum), solvent-refined heavy paraffinic	≤3	64741-88-4
phenol, (tetrapropenyl) derivatives	<0.25	74499-35-7

\* = Various \*\* = Mixture \*\*\* = Proprietary

Any concentration shown as a range is to protect confidentiality or is due to process variation.

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

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

## Section 4. First aid measures

Description of necessary	first aid measures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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. 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. 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.

## Most important symptoms/effects, acute and delayed

Potential acute health	<u>effects</u>	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/symptoms		

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# Section 4. First aid measures

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: Treat symptomatically and supportively.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
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 metal oxide/oxides
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
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, protect	ive 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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".

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# Section 6. Accidental release measures

Environmental precautions	: Avoid dispersal of spilled 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 materials for co	ontainment 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 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	g	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.
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. Store locked up. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Distillates (petroleum), hydrotreated heavy paraffinic

#### ACGIH TLV (United States, 1/2021).

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction

## OSHA PEL (United States, 5/2018). TWA: 5 mg/m<sup>3</sup> 8 hours. NIOSH REL (United States, 10/2020). TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist

STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist

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# Section 8. Exposure controls/personal protection

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Residual oils (petroleum), sol <sup>.</sup>	vent-dewaxed	ACGIH TLV (United States, 6/2013). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 4/2013). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist	
Distillates (petroleum), solvent-refined heavy paraffinic		OSHA PEL (United States, 2/2013). TWA: 5 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2021). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction OSHA PEL (United States, 5/2018). TWA: 5 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2020). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist	
		STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist	
Appropriate engineering controls		mes, gas, vapor or mist, use process enclosures, ngineering controls to keep worker exposure to ecommended or statutory limits.	
Environmental exposure controls	they comply with the requirements of	process equipment should be checked to ensure of environmental protection legislation. In some ineering modifications to the process equipment will to acceptable levels.	
Individual protection measure	<u>es</u>		
Hygiene measures	eating, smoking and using the lavat Appropriate techniques should be u	oroughly after handling chemical products, before tory and at the end of the working period. used to remove potentially contaminated clothing. e reusing. Ensure that eyewash stations and safety on location.	
Eye/face protection	<ul> <li>Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. 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 inhalation hazards exist, a full-face respirator may be required instead.</li> </ul>		
Skin protection			
Hand protection	standard should be worn at all time assessment indicates this is necess glove manufacturer, check during u properties. It should be noted that	mical-resistant gloves complying with an approved s when handling chemical products if a risk sary. Considering the parameters specified by the use that the gloves are still retaining their protective the time to breakthrough for any glove material may ufacturers. Leather gloves are not protective for	
Body protection		he body should be selected based on the task being nd should be approved by a specialist before	
Other skin protection	measures should be selected base	opriate footwear and any additional skin protection d on the task being performed and the risks involved alist before handling this product. Leather boots are	
Respiratory protection	supplied-air respirator complying wi indicates this is necessary. Respira	nists or dusts. Use a properly fitted, air-purifying or ith an approved standard if a risk assessment ator selection must be based on known or anticipated product and the safe working limits of the selected	

# Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Dark amber to black
Odor	: Petroleum.
рН	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Open cup: 270°C (518°F) [Cleveland]
Evaporation rate	: <1 (n-butyl acetate. = 1)
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: <0.0013 kPa (<0.01 mm Hg)
Relative vapor density	: >1 [Air = 1]
Relative density	: 0.88
Density lbs/gal	: Estimated 7.34 lbs/gal
Density gm/cm <sup>3</sup>	: Not available.
Gravity, °API	: Estimated 29 @ 60 F
Solubility	: Insoluble in the following materials: cold water.
Auto-ignition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 144 mm²/s (144 cSt)
Viscosity SUS	:Estimated 667 SUS @104 F
Flow time (ISO 2431)	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

# Section 10. Stability and reactivity

Reactivity	:	Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).
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	:	No specific data.
Incompatible materials	:	No specific data.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

Information on toxicological effects Acute toxicity

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# Section 11. Toxicological information

	Result	Species	Dooo	Exposure
Product/ingredient name		Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 Dermal	Rat Rat	>5000 mg/kg >5000 mg/kg	-
Distillates (petroleum), solvent-refined heavy paraffinic	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Conclusion/Summary	<ul> <li>Distillates (petroleum), hydrotreated heavy paraffinic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. Phenol, 2,2'-polythiobis[4-C8-30-alkyl derivs., calcium salts, overbased: In subchronic feeding studies with calcium branched alkyl phenot sulfide, effects on reproduction were observed in experimental animals when residual alkyl phenol and its calcium salt were present at combined concentrations of 1.68% by weight or greater. No adverse reproductive effects were observed in a reproduction study of two finished lubrication oils contain 5% and 25 % of this material although male body weight was reduced. Also, data from 28 day subchronic studies of similar chemicals indicate potential induction of liver effects in rats characterized by necrosis and fibrosis at oral dose of 250 mg/kg/day or higher. In a combined four-week repeated dose oral toxicity, neurotoxicity and reproductive toxicity screen study in rats at 50, 300, and 1000 mg/kg/day, body weight gain was decreased. Also, there were adrenal changes in males at 1000 mg/kg/day and serum cholesterol was decreased in males at 300 mg/kg/day and above.</li> </ul>			
Irritation/Corrosion Not available.				
Skin	: No additional information.			
Eyes	: No additional information.			
Respiratory <u>Sensitization</u> Not available.	: No additional information.			
Skin	: No additional information.			
Respiratory	: No additional information.			
Mutagenicity Not available.				
Conclusion/Summary	: No additional information.			
Carcinogenicity Not available.				
Conclusion/Summary	: Distillates (petroleum), solven two years) no carcinogenic effect			

# Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP			
Distillates (petroleum), solvent-refined heavy paraffinic	-	4	-			
Reproductive toxicity						
Not available.						
Conclusion/Summary <u>Teratogenicity</u> Not available.	: No addit	ional inforr	nation.			
Conclusion/Summary	: No addit	ional inforr	mation.			
Specific target organ toxicit Not available.	<u>y (single ex</u>	( <u>posure)</u>				
Specific target organ toxicit Not available.	<u>y (repeated</u>	exposure	<u>)</u>			
Aspiration hazard						
Not available.						
Information on the likely routes of exposure	: Routes of	of entry and	ticipated: Dermal.			
Potential acute health effects	<u>i</u>					
Eye contact	: No know	/n significa	nt effects or critical	hazards.		
Inhalation	: No know	/n significa	nt effects or critical	hazards.		
Skin contact	: No know	: No known significant effects or critical hazards.				
Ingestion	: No know	/n significa	int effects or critical	hazards.		
Symptoms related to the phy	sical, chem	ical and to	oxicological chara	<u>cteristics</u>		
Eye contact	: No spec	ific data.				
Inhalation	reduced increase	symptoms fetal weigl in fetal de malformat	eaths	llowing:		
Skin contact	reduced increase	symptoms fetal weigl in fetal de malformat	aths	llowing:		
Ingestion	: No spec	ific data.				
Delayed and immediate effec	ts and also	<u>chronic e</u>	ffects from short a	and long term exp	<u>oosure</u>	
Short term exposure						
Potential immediate effects	: Not avai	lable.				
Potential delayed effects	: Not avai	lable.				
Long term exposure						
Potential immediate effects	: Not available.					
Potential delayed effects	: Not avai	lable.				
Potential chronic health effe	ects					
Not available.						
General	: No know	/n significa	int effects or critical	hazards.		
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# Section 11. Toxicological information

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Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: May damage fertility.

## Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)		(vapors)	Inhalation (dusts and mists) (mg/ I)
CITGO RD-969 Diesel Engine Oil, SAE 40	295499.5	N/A	N/A	N/A	N/A
Distillates (petroleum), solvent-refined heavy paraffinic	5000	N/A	N/A	N/A	N/A

# Section 12. Ecological information

### **Toxicity**

Not available.

**Conclusion/Summary** : Not available.

## Persistence and degradability

<b>Conclusion/Summary</b>	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), solvent-refined heavy paraffinic	-	-	Inherent

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Distillates (petroleum), solvent-refined heavy paraffinic	3.9 to 6	-	high

### Mobility in soil

Soil/water partition: Not available.coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized 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.

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# Section 13. Disposal considerations

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

**Oil:** The product(s) represented by this SDS is (are) regulated as "oil" under 49 CFR Part 130. Shipments by rail or highway in packaging having a capacity of 3500 gallons or more or in a quantity greater 42,000 gallons are subject to these requirements. In addition, mixtures containing 10% or more of this product may be subject to these requirements.

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.

**Transport in bulk according** : Not available. to IMO instruments

# Section 15. Regulatory information

**U.S. Federal regulations** United States inventory (TSCA 8b): All components are listed or exempted. This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

SARA 302/304

**Composition/information on ingredients** 

**SARA 304 RQ** : Not applicable.

SARA 311/312

#### **Classification** : TOXIC TO REPRODUCTION - Category 1B

**Composition/information on ingredients** 

Name	%	Classification
phenol, (tetrapropenyl) derivatives		SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1B

## **State regulations**

**Massachusetts** 

: None of the components are listed.

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# Section 15. Regulatory information

New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.

## International regulations

# Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Inventory list	
United States	: All components are listed or exempted.
Australia	: Not determined.
Canada	: All components are listed or exempted.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: Not determined.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
Viet Nam	: Not determined.

# Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

## Procedure used to derive the classification

Classification				Justification		
TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3				Calculation method Calculation method Calculation method		
<u>History</u>						
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# Section 16. Other information

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Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = 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</li> </ul>
References	: Not available.

Indicates information that has changed from previously issued version.

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