# **SAFETY DATA SHEET**

CITGO Transformer Oil N-II

### Section 1. Identification

GHS product identifier	: CITGO Transformer Oil N-II
Synonyms	: Insulating Oil
Code	: 669490001
Supplier's details	: CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com
Emergency telephone number (with hours of operation)	: Technical Contact: (800) 248-4684 Medical 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	: ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	: Avoid contact with eves, skin and clothing. Thoroughly wash exposed areas and

Ceneral	clothing with soap and water. IF IN EYES: Rinse cautiously with water for several minutes. IF SWALLOWED: Do not induce vomiting. If you feel unwell, seek medical attention and show the label when possible. Keep out of reach of children.
Prevention	: Avoid release to the environment.
Response	: IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
Storage	: Store locked up. Store in a dry place and/or in closed container. Store in accordance with all local, regional, national and international regulations.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.



### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture

: Insulating Oil

#### **CAS number/other identifiers**

**CAS** number

: Not applicable.

Ingredient name	%	CAS number
Distillates, petroleum, hydrotreated, light naphthenic	≥50 - ≤75	64742-53-6
Distillates (petroleum), hydrotreated middle	≥25 - ≤50	64742-46-7
2,6-di-tert-butyl-p-cresol	≤3	128-37-0

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 as hazardous to health or the environment 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** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower Eye contact eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. 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 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. Skin contact 5 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. : Get medical attention immediately. Call a poison center or physician. Wash out mouth Ingestion with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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 sympto	oms/effects, acute and delayed
Potential acute health	effects
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	: May be fatal if swallowed and enters airways.
<u>Over-exposure signs/</u>	<u>symptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	<ul> <li>Adverse symptoms may include the following: nausea or vomiting</li> </ul>

Date of issue/Date of revision
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### Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.	
Specific treatments	: Treat symptomatically and supportively.	
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	toxicolog	gical in	formation	(Section	11)
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### 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
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, 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 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".
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 containment and cleaning up		

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

### Section 6. Accidental release measures

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	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.
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, light naphthenic ACGIH TLV (United States, 3/2019). 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, 10/2016). TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist NIOSH REL (United States, 10/2016). Distillates (petroleum), hydrotreated middle TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist 2,6-di-tert-butyl-p-cresol ACGIH TLV (United States, 3/2019). TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction and vapor NIOSH REL (United States, 10/2016). TWA: 10 mg/m<sup>3</sup> 10 hours.

#### **Appropriate engineering** controls

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

# Section 8. Exposure controls/personal protection

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, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>s</u>
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.
Eye/face protection	: 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.
Skin protection	
Hand protection	: Avoid skin contact with liquid. Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Leather gloves are not protective for liquid contact.
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	: Avoid skin contact with liquid. 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. Leather boots are not protective for liquid contact.
Respiratory protection	: Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Colorless. Yellowish. [Light]	
Odor	: Not available.	
рН	: Not available.	
Boiling point	: Not available.	
Flash point	: Open cup: 145°C (293°F)	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: Not available.	
Vapor density	Not available.	
Relative density	: Not available.	
Density gm/cm <sup>3</sup>	: 0.8792 g/cm³ [15°C (59°F)]	
Gravity, °API	: 29.4	
Flow time (ISO 2431)	: Not available.	
Viscosity	: Kinematic (40°C (104°F)): 0.0899 cm²/s (8.99 cSt)	
Date of issue/Date of revision	: 4/22/2020 Date of previous issue : No previous validation Version : 1	5/11

### Section 9. Physical and chemical properties

Viscosity SUS : Estimated 42 SUS @104 F

### 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

Product/ingredient name	Result	Species	Dose	Exposure
Distillates, petroleum, hydrotreated, light naphthenic	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated middle	LD50 Dermal	Rabbit	>2000 mg/kg	-
,	LD50 Oral	Rat	>5000 mg/kg	-
2,6-di-tert-butyl-p-cresol	LD50 Oral	Mouse	650 mg/kg	-
	LD50 Oral	Rat	890 mg/kg	-
	LD50 Oral	Rat	890 mg/kg	-
Conclusion/Summary	<ul> <li>Distillates (petroleum), I</li> <li>9.6 mg/L (Female Rat).</li> <li>INHALATION (LC50) Acu</li> </ul>		•	TION (LC50) Acute

DRAIZE EYE Àcute: Non-irritating (Rabbit). DRAIZE DERMAL Acute: Mild skin irritant (Rabbit). BUEHLER DERMAL Acute: Non-sensitizing (Guinea Pig).

28-Day DERMAL Sub-Chronic: Mild to moderate skin irritant (Rabbit & Rat).

A life-time dermal application of severely hydrotreated light naphthenic oils produced skin masses on mice which correlated with the skin irritation response levels of the test animals. Additional studies attribute these masses to a weak promotional activity. These studies indicate that light naphthenic oils are not mutagenic, tumor initiators nor complete chemical carcinogens. These materials have not been determined to be carcinogenic by IARC, NTP or OSHA.

6/11

#### Irritation/Corrosion

<b>Observation</b>	Exposure	Score	Species	Result	Product/ingredient name
	24 hours 0.5 MI	-	Rabbit	Skin - Moderate irritant	Distillates, petroleum, hydrotreated, light naphthenic
	24 hours 100 mg	-	Rabbit	Eyes - Moderate irritant	2,6-di-tert-butyl-p-cresol
	48 hours 500	-	Human	Skin - Mild irritant	
	48 hours 500 mg	-	Rabbit	Skin - Moderate irritant	
	mg 48 hours 500	-	Rabbit		Skin

# Section 11. Toxicological information

		0		
Eyes	÷		onal inform	
Respiratory	÷	No additio	onal inform	ation.
Sensitization				
Not available.				
Skin	:	No additio	nal inform	ation
Respiratory		No additio		
Mutagenicity	1	NO additio		au011.
Not available.				
Not available.				
Conclusion/Summary	ŝ	No additio	onal inform	ation.
<b>Carcinogenicity</b>				
Not available.				
Conclusion/Summary	ł	No additio	onal inform	ation.
<b>Classification</b>				
Product/ingredient name		OSHA	IARC	NTP
2,6-di-tert-butyl-p-cresol		-	3	-
Reproductive toxicity				
Not available.				
Conclusion/Summary	÷	No additio	nal inform	ation
<u>Teratogenicity</u>	1	NO additio		au011.
Not available.				
Conclusion/Summary	ł	No additic	onal inform	ation.
Specific target organ toxicity		(single exp	<u>osure)</u>	
Not available.				
Specific target organ toxicity	, (	(repeated e	exposure)	
Not available.	_	. speared (		
Aspiration hazard				

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	: Not available.
Potential acute health effect	<u>s</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	: May be fatal if swallowed and enters airways.
Symptoms related to the ph Eye contact	ysical, chemical and toxicological characteristics : No specific data.
Inhalation	: No specific data.
	•
Skin contact	: No specific data.

### Section 11. Toxicological information

	-
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
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.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

### Section 12. Ecological information

#### **Toxicity**

Exposure
ex - 48 hours
e

**Conclusion/Summary** : Not available.

#### Persistence and degradability

**Conclusion/Summary** : Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2,6-di-tert-butyl-p-cresol	5.1	330 to 1800	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
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### Section 13. Disposal considerations

cleaned or rinsed out. Empty containers or liners may retain some product residues. 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.	3082	3082	
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert- butylp- cresol) Marine Pollutant (2,6-di- tert-butylp- cresol) (2,6-di-tert-butyl-p-cresol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-di-tert- butylp- cresol) (2,6-di-tert-butyl-p-cresol)	
Transport hazard class(es)	-	9	9	
Packing group	-	Ш	III	
Environmental hazards	No.	Yes.	Yes.	

#### **Additional information**

TDG Classification	:	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when
		transported by road or rail.
IMDG	:	This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1. 4 to 4.1.1.8.
ΙΑΤΑ	:	This product is not regulated as a dangerous good when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Special precautions for user	:	<b>Transport within user's premises:</b> 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 to Annex II of MARPOL and the IBC Code	:	Not available.

### Section 15. Regulatory information

U.S. Federal regulations	:	United States inventory (TSCA 8b): All components are listed or exempted.
		Clean Water Act (CWA) 307: chrysene; benz[a]anthracene
		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.

### Section 15. Regulatory information

#### **Composition/information on ingredients**

#### SARA 304 RQ

#### SARA 311/312

#### Classification

: Not applicable.

#### fication : ASPIRATION HAZARD - Category 1

#### Composition/information on ingredients

Name	%	Classification
Distillates, petroleum, hydrotreated, light naphthenic	≥50 - ≤75	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated middle	≥25 - ≤50	FLAMMABLE LIQUIDS - Category 4 ASPIRATION HAZARD - Category 1
2,6-di-tert-butyl-p-cresol	≤3	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

#### SARA 313

	Product name	CAS number	%
Form R - Reporting requirements		218-01-9 56-55-3	<0.001 <0.001

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

Massachusetts	: The following components are listed: OIL MIST, MINERAL; 2,6-di-tert-butyl-p-cresol
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED); 2,6-DI-tert-BUTYL-p-CRESOL; PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL) -4-METHYL-</li> </ul>
Pennsylvania	: The following components are listed: 2,6-di-tert-butyl-p-cresol

California Prop. 65 Clear and Reasonable Warnings (2018)

**WARNING**: This product can expose you to chemicals including Chrysene, Benz[a]anthracene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### International regulations Inventory list

United States	: All components are listed or exempted.
Australia	: Not determined.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.
China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
Viet Nam	: All components are listed or exempted.

### 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
ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3		Calculation method Calculation method Calculation method
<u>History</u>		
Date of printing	: 4/22/2020	
Date of issue/Date of revision	: 4/22/2020	
Date of previous issue	: No previous validation	
Version	: 1	
Key to abbreviations	1 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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	
References	: Not available.	

✓ Indicates information that has changed from previously issued version.

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