SAFETY DATA SHEET



GHS product identifier	:	CITGO HyDurance® AW Synthetic Fluid 46
Synonyms	:	Hydraulic Fluid; Synthetic Lubricant
Material uses	:	Hydraulic
Code	:	633602001

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

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	: TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 4
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Suspected of damaging fertility or the unborn child. May cause long lasting harmful effects to aquatic life.
Precautionary statement	<u>S</u>
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.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Date of issue/Date of revision	: 10/5/2023 Date of previous issue : 8/30/2023 Version : 10 1/13



Section 2. Hazards identification

Hazards not otherwise classified	: Injection of pressurized hydrocarbons can cause severe permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires
	immediate medical attention.

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Other means of identification	:	Hydraulic Fluid; Synthetic Lubricant

CAS number/other identifiers

%	CAS number
≥25 - ≤50	163149-28-8
≥10 - ≤16	151006-63-2
≥10 - ≤25	151006-62-1
≤10	68649-12-7
≤10	151006-60-9
≤0.3	68411-46-1
	≥25 - ≤50 ≥10 - ≤16 ≥10 - ≤25 ≤10 ≤10

* = 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 necessar	<u>y first aid measures</u>
Eye contact	 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.
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. 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 eff	iects						
Eye contact	: No knowr	n significant effects or critic	al hazards.				
Inhalation	: No knowr	No known significant effects or critical hazards.					
Skin contact	•	of pressurized hydrocarbon optoms may be minor.	is can cause severe	permanent tissue damage	€.		
Ingestion	: No knowr	n significant effects or critic	al hazards.				
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Section 4. First aid measures

Over-exposure signs/sym	<u>ptoms</u>
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	: In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.
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 toxicologica	information (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 may cause long lasting harmful effects to aquatic life. 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	 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.
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 proceduresFor 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".

Section 6. Accidental release measures

Environmental precautio	 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 f	or 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

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.

place in an appropriate waste disposal container. Dispose of via a licensed waste

Section 7. Handling and storage

Precautions for safe handling	2	
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

1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated

1-Dodecene, polymer with 1-decene, hydrogenated

ACGIH TLV (United States).

Inhalable Fraction: 5 mg/m³ Form: Aerosol. ACGIH TLV (United States). Inhalable Fraction: 5 mg/m³ Form: Aerosol.

Section 8. Exposure controls/personal protection

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Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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 meas	ures
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.
Continu O Dhunia	al and chamical properties

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.	Liquid.			
Color	: Light amber	Jht amber			
Odor	: Mild.				
рН	: Not available.				
Boiling point, initial boiling point, and boiling range	: Not available.	: Not available.			
Flash point	: Open cup: 244°C (471.2	Open cup: 244°C (471.2°F) [Cleveland]			
Lower and upper explosive (flammable) limits	: Not available.				
Vapor pressure	: <0.013 kPa (<0.1 mm Hg)				
Relative vapor density	: Not available.				
Relative density	: 0.85				
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Density Ibs/gal	: Estimated 7.09 lbs/gal
Density gm/cm ³	: Not available.
Gravity, °API	: Estimated 35 @ 60 F
Auto-ignition temperature	 Lowest known value: 343 to 369°C (649.4 to 696.2°F) (Dec-1-ene, homopolymer, hydrogenated).
Viscosity	: Kinematic (40°C (104°F)): 46 mm²/s (46 cSt)
Viscosity SUS	: Estimated 213 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

Product/ingredient name	Result	Species	Dose	Exposure
1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated	LC50 Inhalation Dusts and mists	Rat - Male, Female	1.17 mg/l	4 hours
	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
1-Dodecene, homopolymer, nydrogenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
, ,	LD50 Oral	Rat	>2000 mg/kg	-
1-Dodecene, polymer with 1-decene, hydrogenated	LC50 Inhalation Dusts and mists	Rat - Male, Female	>5 mg/l	4 hours
	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	 Dec-1-ene, homopolymer, hydronon-irritating to the skin. 1,2-Benzenedicarboxylic acid, non-toxic by inhalation (LC₅₀ >5r 1-Dodecene, homopolymer, hydronymer, hydronymer,	di-C9-11-bran ng/L) based on /drogenated : F	ched alkyl esters, testing of similar pr	C10-rich : Practically oducts in rats.

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result		Species	Score		Exposure	Observation
1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated	Eyes - Redness conjunctivae	s of the	Rabbit	1		24 hours 0.5 ml	72 hours
, ,	Skin - Edema		Rabbit	0.7		4 hours 0.5ml	7 days
1-Dodecene, polymer with	Eyes - Redness	s of the	Rabbit	1		24 hours 0.5	72 hours
1-decene, hydrogenated	conjunctivae			0.7		ml	
	Skin - Edema		Rabbit	0.7		4 hours 0.5ml	7 days
Skin Eyes	 cause mild ski 1-Dodecene, skin irritation a 1-Dodecene, irritating to eye 1,2-Benzeneo non-irritating to eye 	in irritation polymer v and inflam polymer v es. dicarboxyl o eyes.	and inflammati vith 1-decene, nation. vith 1-decene a ic acid, di-C9-	on. hydroger and 1-octo 11-branch	ated: ene, h ed all	This product ca ydrogenated: I kyl esters, C10	This product can an cause mild Practically non- -rich : Practically -irritating to eyes.
Respiratory	: No additional					· · · · · · · · · · · · · · · · · · ·	
<u>Sensitization</u>	. No additional	mormation					
Product/ingredient name	Route of exposure	Speci	es		Resu	ılt	
1-Dodecene, polymer with 1-decene and 1-octene,	skin			ensitizing			
hydrogenated 1-Dodecene, polymer with 1-decene, hydrogenated	skin Guinea pig Not sensitizing						
Skin Respiratory	skin.	polymer v	vith 1-decene,				Non-sensitizer to to skin.
Mutagenicity						1	
Product/ingredient name	Test		Experiment			Result	
1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated	EU		Experiment: In Subject: Bacte	-		Negativ	/e
	EU		Experiment: In Subject: Mamr		mal	Negativ	/e
1-Dodecene, polymer with 1-decene, hydrogenated	EU		Experiment: In Subject: Bacte	vitro		Negativ	/e
	EU		Experiment: In Subject: Mamr	vivo	mal	Negativ	/e
Conclusion/Summary	: 1-Dodecene, effect. 1-Dodecene,		vith 1-decene a				U U
Not available.							
Conclusion/Summary	: No additional	informatior	۱.				
Reproductive toxicity							

Section 11. Toxicological information

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated	Negative	Negative	Negative	Rat - Male, Female	Oral: 1000 mg/ kg	-
1-Dodecene, polymer with 1-decene, hydrogenated	Negative	Negative	Negative	Rat - Male, Female	Oral: 1000 mg/ kg	-

Conclusion/Summary : 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated: No known significant effects or critical hazards.

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich: A 2-generation reproductive toxicity study conducted on this material did not identify any effects on reproductive parameters. However, the study did identify a small increase in early offspring mortality at the high oral dose level. Based on studies with laboratory animals, oral maternal exposure to this component can result in developmental toxicity to the conceptus. The NOAELs established from these studies were 38 to 44 mg/kg-bw/ day during pregnancy and 52 to 114 mg/kg-bw/day during lactation.

1-Dodecene, polymer with 1-decene, hydrogenated: No known significant effects or critical hazards.

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Teratogenicity

Not available.

Conclusion/Summary : No additional information.

Specific target organ toxicity (single exposure) Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Name	Result
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effects

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Ingestion	No specific data.				
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations				
Inhalation	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations				
Eye contact	No specific data.				
	I, chemical and toxicological cha	aracteristics			
Ingestion	No known significant effects or critic	cal hazards.			
Skin contact	njection of pressurized hydrocarbor nitial symptoms may be minor.				
Inhalation	o known significant effects or critical hazards.				
Eye contact	No known significant effects or critic	cal hazards.			
Fotential acute fieattil effec					

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</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	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
CITGO HyDurance® AW Synthetic Fluid 46 1-Dodecene, polymer with 1-decene and 1-octene,	30441.1 N/A	2803.4 2500	N/A N/A	N/A N/A	N/A N/A
hydrogenated 1-Dodecene, homopolymer, hydrogenated 1-Dodecene, polymer with 1-decene, hydrogenated	2500 N/A	2500 2500	N/A N/A	N/A N/A	N/A N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated	Acute EC50 1000 mg/l Fresh water	Crustaceans - Daphnia magna	48 hours
, ,	Acute LC50 >1000 mg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEL 125 mg/l Fresh water	Crustaceans - Daphnia magna	21 days
1-Dodecene, polymer with 1-decene, hydrogenated	Acute EC50 1000 mg/l Fresh water	Crustaceans - Daphnia magna	48 hours
	Acute LC50 >1000 mg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEL 125 mg/l Fresh water	Crustaceans - Daphnia magna	21 days
Conclusion/Summary	 1-Dodecene, polymer with 1-decen significant effects or critical hazards. 1-Dodecene, polymer with 1-decen critical hazards. 		

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Section 12. Ecological information

Persistence and degradability

Conclusion/Summary

: Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated	>6.5	-	high
1-Dodecene, homopolymer, hydrogenated	>6.5	-	high
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	5	-	high
1-Dodecene, polymer with 1-decene, hydrogenated	>6.5	-	high
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730	high

Mobi	litv i	n 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. 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.

Section 14. Transport information

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

J.S. Federal regulations	:	United States inventory (TSCA 8b): All components are listed or exempted.
		Clean Water Act (CWA) 307: ethylbenzene
		Clean Water Act (CWA) 311: xylene; ethylbenzene
		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 2 HNOC - Injection Hazards

Composition/information on ingredients

Name	%	Classification
1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated	≥25 - ≤50	ASPIRATION HAZARD - Category 1 HNOC - Injection Hazards
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	≤10	ASPIRATION HAZARD - Category 1 HNOC - Injection Hazards
1-Dodecene, polymer with 1-decene, hydrogenated	≤10	ASPIRATIÓN HAZARD - Category 1 HNOC - Injection Hazards
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	≤0.3	TOXIC TO REPRODUCTION - Category 2 HNOC - Injection Hazards

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	 The following components are listed: 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich

California Prop. 65 Clear and Reasonable Warnings (2018)

▲ WARNING: This product can expose you to chemicals including Ethylbenzene, which is known to the State of California to cause cancer, and Di-isodecyl phthalate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 15. Regulatory information

Ingredient name	%	Cancer	Reproductive	_	Maximum acceptable dosage level
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	<20	No.	Yes.	-	Yes.
ethylbenzene	<0.01	Yes.	No.	Yes.	-

International regulations

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

Inventory list

United States	: All components are listed or exempted.
Australia	: All components are listed or exempted.
Canada	: At least one component is not listed in DSL but all such components are listed in NDSL.
China	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined
New Zealand	: Not determined.
Philippines	: Not determined.
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 REPRODUCTIC AQUATIC HAZARD (LONG	Calculation method Calculation method					
<u>History</u>						
Date of printing	: 10/5/2023					
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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 = 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.

References

Not available.

Indicates information that has changed from previously issued version.

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