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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 2.0

SDS Revision Date: 12/31/2013

		1.	PRODU	JCT & COM	<u>IPANY</u>	IDEN	ITIF	ICA	TIO	N				
1.1	Product Name:	FORI	O GOLE	ANTIFRE	EZE/C	OOLA	NT	CO	NCE	NTR	ATI	ED		
1.2	Chemical Name:		e Glycol Mix											
1.3	Synonyms:	Ethaned	liol											
1.4	Trade Names:	Ford Go	old Antifreez	e/Coolant Conce	ntrated									
1.5	Product Use:	Engine	Coolant											
1.6	Distributor's Name:	Worldp	ac, Inc.											
1.7	Distributor's Address:	37137 H	lickory Stre	et, Newark, CA 9	4560 USA									
1.8	Emergency Phone:	INFOT	RAC: +1	(800) 535-50	53 / +1 (352) 3	23-3	500 (CON	TRAC	CT 84	4261)		
1.9	Business Phone / Fax:	+1 (510)	608-5525	/ +1 (510) 742-92	262									
			2	HAZARDS	IDENT	IFICA	TIC	N						
2.1	Hazard Identification:	This pro		ssified as a haza					ngero	us aooc	ds acc	cordina	ı to	
				iteria of [NOHSC:							30 00	Jording	,	
				IFUL IF SWALL		/-			`	,				
		Hazard	Statements	(H): H302 - Hari	mful if swal	lowed.								
		Precaut	ionary State	ements (P): P26	34 - Wash	hands a	and e	expose	d skin	areas	with	soap a	and	
				ighly after handli										$\langle \cdot \cdot \rangle$
				ear protective gl										\' •/
				ER or doctor/p										
				 IF IN EYES: F present and 						eral mir P501				
				to licenses treatm							- DI	spuse	OI	
2.2	Effects of Exposure:	Eyes:	Thi	is product can casts.							-term	contac	ct with	liquid sprays o
		Skin:		y cause mild sk	in irritation	Althou	ıah ra	are sk	in cor	ntact wi	ith etl	hvlene	alvcol	may cause a
		OKIII.		ergic skin reactio										
				er skin effects).										
				allowing.	J	J			,					· ·
		Ingestio		small amounts s estion of large an										
		Inhalatio	on: Bre	eathing of vapor	or mist is d	ossible	and n	nav ca	use re	espirato	rv tra	ct irrita	ation. P	ossible advers
		<u></u>	effe	ects on the nervouse severe lung d	ous system	and blo								
2.3	Symptoms of Overexposure:	Eyes:												
		Skin:												
		Ingestion	Ingestion: Laxative effects. Gastrointestinal discomfort, nausea, vomiting and headache.											
		Inhalatio	<u>n</u> : Up	per respiratory in	ritation, co	oughing,	snee	ezing,	stagg	ering g	ait, g	iddines	s, dro	wsiness, slurre
				eech, involuntary										
0.4	A			rvous system dep										
2.4	Acute Health Effects:			to eyes. Possiblervous system de							derma	ititis (r	ash). U	pper respirator
2.5	Chronic Health Effects:		•	ited skin contact							chara	acteriz	ed by o	drving, cracking
				ted or prolonged										
				s in laboratory a										
				cause central ner		m effects	s, live	r abno	rmaliti	es, kidr	ney da	amage	or liver	damage.
2.6	Target Organs:	Kidneys	, liver, centr	al nervous syster	n.									
		3. C0	OMPOS	ITION & IN	GREDI	ENT I	INF	ORN	/AT	ION				
										SURE LI	MITS IN	I AIR (m	g/m³)	
						ACG	iH		NOHSC	;		OSHA	L.	
						ppn	n		ppm			ppm	ı	4
	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
HEMI		107-21-1	KW297500		60-100	(100)	NA	NF	NF	NF	(50)	NA	NA	
		Acute Tox. 4	*· H302											
	LENE GLYCOL	Acute Tox. 4	,											
THY	JM TETRABORATE	12179-04-3	NA	NA	1-5	(2)	NA	NF	NF	NF	NA	NA	NA	RESP FRAC
THY			NA		1-5	(2)	NA	NF	NF	NF	NA	NA	NA	RESP FRAC



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WP-962 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 4. FIRST AID MEASURES 4 1 First Aid: Ingestion: Do NOT induce vomiting. Contact Infotrac +1 (800) 535-5053 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 Eyes: minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists Skin: and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial Inhalation: respiration. Seek immediate medical attention. 4.2 Medical Conditions Aggravated by Persons with pre-existing central nervous system (CNS) HEALTH Exposure: disease, neurological conditions, skin disorders, chronic **FLAMMABILITY** 1 respiratory diseases, or impaired liver or kidney function should PHYSICAL HAZARDS 0 avoid exposure. PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO₂, and NOx), smoke, hydrocarbons and their derivatives. Extinguishing Methods: 5.2 Water, Foam, CO₂, Dry Chemical, low velocity water fog, Halon (if permitted), 53 Firefighting Procedures: As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Treat as hot oil. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Spills Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a noncombustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials (e.g., oxidizers, strong acids, alkalis) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMATION 7 1 Work & Hygiene Practices: Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Immediately clean-up and decontaminate

containers. Use appropriate containment to avoid environmental contamination.

Empty containers may retain hazardous product residues.

Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Store in closed containers. Avoid temperatures above 40°C (120°F). Keep away from incompatible substances (see Section 10) and food/drink. Protect containers from physical damage. Do not store in unlabeled

any spills or residues.

Storage & Handling:

Special Precautions

7.2



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Physician Recommendations

Treat symptomatically.

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: Do not allow product to reach ground water, water bodies or sewage system. WGK: 2. 122 Effects on Plants & Animals: There is no specific data available for this product. 12.3 Effects on Aquatic Life: There is no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 Recycling of used/waste product is preferable to simple disposal. Product is suitable for supervised incineration at very high temperatures to prevent formation of undesirable combustion products. End user bears the responsibility to discard unused or waste product in accordance with local, state, and federal laws and regulations. 13 2 Special Considerations: Used coolant may be recyclable. Contact the federal, state or provincial environmental authority to determine suitability for recycling and or proper disposal requirements. European Waste Catalogue: 16 01 14 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG, SCT, ADGT, ADR and the CTDGR 49 CFR (GND): NOT REGULATED 14.2 IATA (AIR): **NOT REGULATED** IMDG (OCN): 14.3 NOT REGULATED TDGR (Canadian GND): 14.4 NOT REGULATED 14.5 ADR/RID (EU): NOT REGULATED SCT (MEXICO): NOT REGULATED 14.6 ADGR (AUS): 14.7 **NOT REGULATED** 15. REGULATORY INFORMATION SARA Reporting Requirements This product contains Ethylene Glycol, a substance subject to SARA Title III, section 313 reporting requirements. 15.1 SARA Threshold Planning Quantity: 15.2 TSCA Inventory Status: All components of this product are listed in the TSCA Inventory or are exempt. 15.3 CERCLA Reportable Quantity (RQ): 15.4 Ethylene Glycol: 5000 lbs (2270 kg) 15.5 Other Federal Requirements: 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects). 15.7 State Regulatory Information: Ethylene Glycol is found on the following state criteria lists: California Hazardous Substances List (CA) Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA). Diethylene Glycol is found on the following state criteria lists: MN, PA. Sodium Hydroxide is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Hazardous Substances List (CA); California Proposition 65 (CA65), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY). Pennsylvania Right-to-Know List (PA). Washington Permissible Exposures List (WA). Wisconsin Hazardous Substances List (WI). Other Requirements: The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: Ethylene Glycol: Harmful (Xn). Risk Phrases (R): R22 - Harmful if swallowed. Safety Phrases (S): S(2)-13-23-36-46 - Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Do not breathe mists/vapours/spray. Wear suitable protective clothing. If swallowed, seek medical advice immediately and show this container or label where possible.



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		16. OTHER IN	IFORMATION
16.1	Other Information:	thoroughly after handling. Do not ear protection. If ingested, call a POISON	WED. Wash hands and exposed skin areas with soap and warm water it, drink or smoke when using this product. Wear protective gloves/eye CENTER or doctor/physician if you feel unwell. Rinse mouth. If in eyes, ninutes. Remove contact lenses, if present and easy to do. Continue rinsing.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	Other government regulations must be Worldpac's knowledge, the information suitability or completeness is not gual provided. The information contained h	suant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. To reviewed for applicability to this product. To the best of ShipMate's & contained herein is reliable and accurate as of this date; however, accuracy, ranteed and no warranties of any type, either expressed or implied, are erein relates only to the specific product(s). If this product(s) is combined perties must be considered. Data may be changed from time to time. Be
16.4	Prepared for:	Worldpac, Inc. 37137 Hickory Street Newark, CA 94560 USA Tel: +1 (510) 608-5525 Fax: +1 (510) 742-9262 http://www.worldpac.com	WORLDPAC ::::::::::::::::::::::::::::::::::::
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, OR 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate* Dangerous Goods Training & Consulting



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	ACGIH American Conference on Governmental Industrial Hygienists	
TLV	TLV Threshold Limit Value	
OSHA U.S. Occupational Safety and Health Administration		
PEL Permissible Exposure Limit		
IDLH	Immediately Dangerous to Life and Health	

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

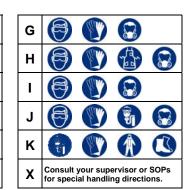
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D	B	型	
Е			
F			







Splash Goggles





(Cy





Synthetic Apron





Full Face Respirator

Dust & Vapor Half-Mask Respirator

Full Face Respirator

Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

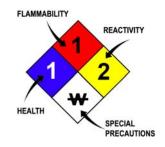
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:					
Autoignition Temperature Minimum temperature required to initiate combustion in air with no o source of ignition					
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source				
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source				

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
ОХ	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System	
DOT	U.S. Department of Transportation	
TC	TC Transport Canada	
EPA	PA U.S. Environmental Protection Agency	
DSL	DSL Canadian Domestic Substance List	
NDSL	NDSL Canadian Non-Domestic Substance List	
PSL	Canadian Priority Substances List	
TSCA	U.S. Toxic Substance Control Act	
EU	European Union (European Union Directive 67/548/EEC)	
WGK	Wassergefährdungsklassen (German Water Hazard Class)	

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(*)	(2)		\odot	(18)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

		M	*		9	×	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment