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

SDS Revision: 1.1

SDS Revision Date: 3/14/2018

.1	Product Name:	CAIC CI	ICONE III	EAT CILI			TIFIC						
		+	LICONE H	EAT SINE	CON	/IPOU	ND #H	5 C6	<u> </u>				
	Chemical Name:	Silicone Compound											
	Synonyms:	P/N HSC67-6G											
	Trade Names:	CAIG HSC67 Silicone Heat Sink Compound #HSC67											
_	Product Uses & Restrictions:	Heat transfer agent											
	Distributor's Name:	CAIG Labora		04.00004.0	070 110 4								
_	Distributor's Address: Emergency Phone:		ner Court, Poway										
		CHEMTRE	C: +1 (703)	527-3887 <i>/</i>	+1 (800)) 424-9	9300 (C	CN20	5206)				
9	Business Phone / Fax:	+1 (800) 224	4123										
			2. HA	ZARDS I	DENT	IFICA	TION						
1	Hazard Identification:	This product	is classified as a					NGERO	US GC	OODS	accord	ding to	the classification
		criteria of NO	HSC: 1088 (200	4) and ADG C	ode (Aus	stralia).						•	
			VERY FATAL	. TO AQUAT	IC LIFE	WITH	LONG L	.ASTING	G EFF	ECTS	6. M	AY BE	HARMFUL
		SWALLOWE											
		Classification	: Chronic Aquati	c 1; Acute Tox	t. 5								
.2	Label Elements:		ments (H): H410	0 – Very toxic	to aquati	c life with	n long last	ting effe	cts. H	303 –	May b	ре	
		harmful if swa	allowed. / Statements (P	\· D1∩1 I	odical ad-	vice is ==	odod be	10 prod	ict co-	taina-	or lak	_	V.
			<u>/ Statements</u> (P _. 02 – Keep out (*
			e environment.										32/
			ge. P501 – Disp										
		facility (TSDF			.0,00111011				., 0.0.0	90 0.	a.op 00	<u> </u>	•
3	Other Warnings:	KEEP OUT	OF REACH OF	CHILDREN.									
		3. C	OMPOSITI	ON & ING	REDI	ENT	NFOR			IMITC IN	LAID (m	/ 3\	
			EXPOSURE LIMITS IN AIR (ACGIH NOHSC OSH					OSHA	g/m·)				
						ppm		ppm			ppm		†
						- PP				ppin			
							ES-	ES-	ES-				
EMIC	AL NAME(S)	CAS No.	RTECS No.	EINECS No.	%		STEL TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
	XIDE	1314-13-2	ZH4810000	215-222-5	45-75	TLV S				PEL 5	STEL 15	IDLH 500	OTHER RESP FRAC
		1314-13-2 Aquatic Acute	ZH4810000 1; Chronic Aquati	215-222-5 c 1; H400, H410	45-75	2	10 10	NF	PEAK NF	5	15	500	
NC O		1314-13-2 Aquatic Acute NA	ZH4810000 1; Chronic Aquati NA	215-222-5	45-75		10 10	NF	PEAK NF		15		
NC O	XIDE	1314-13-2 Aquatic Acute	ZH4810000 1; Chronic Aquati NA	215-222-5 c 1; H400, H410	45-75	2	10 10	NF	PEAK NF	5	15	500	
NC O	XIDE	1314-13-2 Aquatic Acute NA	ZH4810000 e 1; Chronic Aquati NA H303	215-222-5 c 1; H400, H410 NA	45-75 BAL	NA N	TEL TWA 10 10	NF	PEAK NF	5	15	500	
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 3/14/2018 4. FIRST AID MEASURES - cont'd 4 4 Acute Health Effects: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of dust can cause ccoughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract 4.5 Chronic Health Effects: Non-irritating when used as directed. Possible allergic dermatitis in some sensitive individuals Target Organs: 4.6 Eyes, Skin. Medical Conditions 4.7 Pre-existing dermatitis, other skin conditions. HEALTH 1 Aggravated by Exposure: **FLAMMABILITY** 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT В EYES SKIN 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: This material can burn but will not readily ignite. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., Metal oxides, Carbon oxides, Silicon oxides, Formaldehyde). 5.2 Extinguishing Methods: CO₂, Dry Chemical, Alcohol Foam, Dry Chemical. Keep containers cool until well after the fire is out. Fight fires as for surrounding materials. As in 5.3 Firefighting Procedures: any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. 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. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills: Before cleaning any spill individuals involved in cleanup must wear appropriate Personal Protective Equipment. Plastic or rubber gloves, respirator, eye protection and apron may be required for clean-up of large spills. No special precautions are required for intact packaging containing this product. Small spills: Soak up with inert absorbent material Large spills: Provide diking or other appropriate containment to keep material from spreading. Clean up remaining materials with suitable absorbent. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. Store recovered material and diking in appropriate marked container. Local or national regulations may apply to releases of this material as well as material and items employed in cleanup. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Wash unintentional residues with soap and warm water. 7.2 Storage & Handling: The product must be stored in its original packing in a well-ventilated area away from dust, sunlight and excessive heat. 7.3 Special Precautions: Clean all spills promptly. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Exposure Limits: ACGIH NOHSC OSHA OTHER ppm (mg/m³) ES-TWA ES-STEL CHEMICAL NAME(S) STEL **ES-PEAK** STEL IDLH RESP FRAC ZINC OXIDE 10 10 NF NF 15 500 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general Controls exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). Respiratory Protection: None required under normal conditions of use. In instances where respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. Eye Protection: Avoid eye contact. None required under normal conditions of use. Safety glasses could be used 8.4 when handling or using large quantities of this product. Hand Protection: 8.5 None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber, nitrile or impervious plastic gloves. 8.6 Body Protection: No apron required when handling small quantities. When handling large quantities (e.g., ≥ 5 lbs), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.



13.2

Special Considerations:

NA

Page 3 of 6 SAFETY DATA SHEET SDS-E-HSC67 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 3/14/2018 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: 9.1 White paste 92 Odor: NA Odor Threshold: 9.3 NA 9.4 NA 9.5 Melting Point/Freezing Point: NA 9.6 Initial Boiling Point/Boiling NA 9.7 Flashpoint: NA 9.8 Upper/Lower Flammability LEL: NA; UEL: NA 9.9 Vapor Pressure NA 9.10 Vapor Density: NA Relative Density: 9.11 2.0 Solubility: 9.12 NA 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature: NA NA 9.17 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions; unstable with heat or contamination. Hazardous Decomposition 10.2 If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., Metal oxides, Carbon Products: oxides, Silicon oxides, Formaldehyde). 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid Open flames, sparks, high heat, incompatible substances and direct sunlight. 10.5 Incompatible Substances: Avoid extreme heat and ignition sources. Store away from oxidizers 11. TOXICOLOGICAL INFORMATION Absorption: YES Routes of Entry: 11.1 Ingestion: YES 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below: Zinc oxide: LD_{50} (oral, rat) > 5,000 mg/kg; LD_{50} (inhalation, rat) > 5.7 mg/kg Acute Toxicity: 11.3 See section 4.4 11.4 Chronic Toxicity: See section 4.5 11.5 Suspected Carcinogen: This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov. 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity This product is not reported to produce mutagenic effects in humans. Embryotoxicity This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 11.7 Irritancy of Product: See section 4.2 Biological Exposure Indices: 11.8 NE Physician Recommendations: 11.9 Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: 12.1 Specific environmental data available for the components of this product are as follows: Zinc Oxide: LC₅₀ (Oncorhynchus mykiss(rainbow trout)):3320-780 μg/l exposure time 96 hours (based on data from similar materials); EC₅₀ (Daphnia magna (water flea)): 6.9-16.2 mg/l exposure time 48 hours. Method: OECD Test Guideline 202; EC₅₀ (Selenastrum capricornutum (green algae)): 136 μg/l exposure time 72 hours. Bioaccumulation: Fish Bioconcentration factor (BCF): 177. Effects on Plants & Animals: 122 There are no specific data available for this product. 123 Effects on Aquatic Life: There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Products covered by this SDS, in their purchased form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal

regulations. Dispose of in accordance with federal, state and local regulations.



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SDS Revision Date: 3/14/2018

		14. TRANSPORTATION INFORMATION	
The	basic description (ID Num	nber, proper shipping name, hazard class & division, packing group) is shown for each mode of	transportation. Additional
desc	riptive information may be	e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	<u> </u>
14.1	49 CFR (GND):	NOT REGULATED	
14.2	IATA (AIR):	ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 5.0 kg) UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S., (ZINC OXIDE), 9, III (LTD QTY, IP VOL ≤ 5.0 kg, PKG ≤ 30 kg G)	₩ or ₩
14.3	IMDG (OCN):	NOT REGULATED (IP VOL ≤ 10 g) per SP 335 UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S., (ZINC OXIDE), 9, III (LTD QTY, IP VOL ≤ 5.0 kg, PKG ≤ 30 kg G) MARINE POLLUTANT	\$
14.4	TDGR (Canadian GND):	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S., (ZINC OXIDE), 9, III (LTD QTY, IP VOL ≤ 5.0 kg, PKG ≤ 30 kg G) MARINE POLLUTANT	\Diamond
14.5	ADR/RID (EU):	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S., (ZINC OXIDE), 9, III (LTD QTY, IP VOL \leq 5.0 kg, PKG \leq 30 kg G) MARINE POLLUTANT	\Diamond
14.6	SCT (MEXICO):	NOT REGULATED (IP VOL \leq 10 g) UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S., (ZINC OXIDE), 9, III (LTD QTY, IP VOL \leq 5.0 kg, PKG \leq 30 kg G) MARINE POLLUTANT	\$
14.7	ADGR (AUS):	NOT REGULATED (IP VOL ≤ 10 g) UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S., (ZINC OXIDE), 9, III (LTD QTY, IP VOL ≤ 5.0 kg, PKG ≤ 30 kg G) MARINE POLLUTANT	\$
14.8	EXCEPTED QUANTITY	This product may also be shipped as an Excepted Quantity (IP VOL ≤ 30 mL, PKG ≤ 500 mL)	0 :
		15. REGULATORY INFORMATION	
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting re	equirements.
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.	
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.	
15.4	CERCLA Reportable Quantity (RQ):	NA	
15.5	Other Federal Requirements:	NA	
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the SDS corall of the information required by the CPR. The components of this product are listed on DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects).	n the
15.7	State Regulatory Information:	Zinc Oxide is found on the following state criteria lists: Florida Toxic Substances List (FL), Nubstances List (MA), Michigan Critical Substances List,), Minnesota Hazardous Substance Right-to-Know List (PA) and Washington Permissible Exposures List (WA). No ingredients in this product, present in a concentration of 1.0% or greater, are listed on criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substance Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WA), Wisconsin	s List (MN), Pennsylvania any of the following state Florida Toxic Substances MI), Minnesota Hazardous is List (NY), Pennsylvania
15.8	Other Requirements:	This product does not contain any chemicals known to the State of California to cause can other reproductive harm. For more information go to www.P65Warnings.ca.gov .	



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	16. OTHER INFORMATION					
16.1	Other Information:	SWALLOWED. Use only as directed. If medic reach of children. Read label before use. Avoid	LIFE WITH LONG LASTING EFFECTS. MAY BE HARMFUL IF all advice is needed, have product container or label at hand. Keep out of d release to the environment. Call a POISON CENTER/doctor if you feel nvironment. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.			
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.				
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIC Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.				
16.4	Prepared for:	CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 Tel: +1 (800) CAIG-123 (244-4123) Fax: +1 (858) 486-8398 fax http://www.caig.com/	CAIG LABORATORIES, INC.			
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 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		
RTECS No.	Registry of Toxic Effects of Chemical Substances Number	
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number	

EXPOSURE LIMITS IN AIR:

ACGIH	ACGIH American Conference on Governmental Industrial Hygienists	
IDLH	Immediately Dangerous to Life and Health	
NOHSC	National Occupational Health and Safety Commission (Australia)	
OSHA	U.S. Occupational Safety and Health Administration	
PEL	Permissible Exposure Limit	
STEL	Short Term Exposure Limit	
TLV Threshold Limit Value		
TWA Time Weighted Average		

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

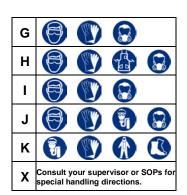
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE THE	
Ε			
F		THE STATE OF THE S	





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic	
Irrit	Irritant	
NA	Not Available	
NR	No Results	
ND	Not Determined	
NE	Not Established	
NF	Not Found	
SCBA	Self-Contained Breathing Apparatus	
Sens	Sensitization	
STOT RE	Specific Target Organ Toxicity – Repeat Exposure	
STOT SE	Specific Target Organ Toxicity – Single Exposure	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	FLAMMABILITY LIMITS IN AIR:		
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other 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	FLAMMABILITY
1	Slight Hazard	\ \ \ \ \
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	\sim 2
ALK	Alkaline	
COR	Corrosive	/ \ \ \ \
₩	Use No Water	HEALTH
OX	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

Lethal Dose (solids & liquids) which kills 50% of the exposed animals		
Lethal concentration (gases) which kills 50% of the exposed animal		
Concentration expressed in parts of material per million parts		
Lowest dose to cause a symptom		
Lowest concentration to cause a symptom		
Lowest dose (or concentration) to cause lethal or toxic effects		
International Agency for Research on Cancer		
National Toxicology Program		
Registry of Toxic Effects of Chemical Substances		
Bioconcentration Factor		
Median threshold limit		
Coefficient of Oil/Water Distribution		

REGULATORY INFORMATION:

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

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	*	(2)		\odot	(4)		(R)
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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

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