

SAFETY DATA SHEET

in accordance with 1907/2006/EC (REACH, as amended by 830/2015/EU) and 29 CFR 1910.1200

Revision date: 15 October 2015

Initial date of issue: 6 July 2007

SDS No. 104B-19

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

710 Anti-Seize Compound (Bulk)

1.2. Relevant identified uses of the substance or mixture and uses advised against

High temperature, extreme pressure, corrosion resistant anti-seize compound and assembly lubricant. This is a petroleum base lubricant.

Supplier:

1.3. Details of the supplier of the safety data sheet

Company:

A.W. CHESTERTON COMPANY 860 Salem Street Groveland, MA 01834-1507, USA Tel.: +1 978-469-6446 Fax: +1 978-469-6785 (Mon. - Fri. 8:30 - 5:00 PM EST) SDS requests: www.chesterton.com E-mail (SDS questions): ProductMSDSs@chesterton.com E-mail: customer.service@chesterton.com

1.4. Emergency telephone number

24 hours per day, 7 days per week Call Infotrac: 1-800-535-5053 Outside N. America: +1 352-323-3500 (collect)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, 29 CFR 1910.1200, WHMIS 2015 and GHS.

2.1.2. Classification according to 29 CFR 1910.1200 / WHMIS 2015

Flam. Liq. 4, H227

2.1.3. Classification according to WHMIS 1988

B3: Combustible liquids; D2B: Toxic materials causing other effects; D2A: Very toxic materials causing other effects

2.1.4. Australian statement of hazardous nature

Hazardous according to criteria of Safe Work Australia.

2.1.5. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16.

2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:	None
Signal word:	None
Hazard statements:	None
Precautionary statements:	None
Supplemental information:	None
2.2.2. Labelling according to	29 CFR 1910.1200 / WHMIS 2015
Hazard pictograms:	None
Signal word:	Warning

Hazard statements:	H227	Combus	Combustible liquid.			
Precautionary statemen	ts: P210 P280 P370/378 P403/235 P501	Wear pr In case Store in	Keep away from flames and hot surfaces. – No smoking. Wear protective gloves and eye protection. In case of fire: Use CO2, dry chemical, foam or water fog to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container to an approved waste disposal plant.			
Supplemental information	on: None					
2.3. Other hazards						
					presence of acetylene. The copper in t does not present a hazard in normal	
SECTION 3: COMPOSIT	ION/INFORMA	tion on Ing	REDIENTS			
3.2. Mixtures						
Hazardous Ingredients ¹		% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification	
Distillates (petroleum), hy heavy naphthenic**	drotreated	35-45	64742-52-5 265-155-0	NA	Asp. Tox. 1, H304	
Aluminum		5-10	7429-90-5	01-211952	Water-react. 2, H261	
Naphtha (petroleum), hyd	rotreated	1-4	231-072-3 64742-48-9	9243-45 NA	Flam. Sol. 1, H228 Flam. Liq. 3, H226	
heavy*	oncated	T 4	265-150-3		Asp. Tox. 1, H304	
					STOT SE 3, H336	
Methanol		0.1-0.5	67-56-1 200-659-6	NA	Flam. Liq. 2, H225 Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 Eye Irrit. 2A, H319 STOT SE 1, H370	
Other ingredients:					0.0.022,	
Copper		20-30	7440-50-8 231-159-6	NA	Not classified***	
Graphite		1-5	7782-42-5 231-955-3	01-211948 6977-12	Not classified***	
Silicon Dioxide		1-2	112945-52-5 7631-86-9/ 231-545-4	NA	Not classified***	
For full text of H-statemen *Contains less than 0.1 % ***Substance with a workp	w/w Benzene. *	**Contains les	s than 3 % DMS0	D extract as meas	ured by IP 346.	
* 1 * V	9 CFR 1910.1200 272/2008/EC, RE VHMIS 2015 Safe Work Australi	ACH		-Know Law (ch. 40,	M.G.LO. 111F), California Proposition 65	
SECTION 4: FIRST AID	MEASURES					
4.1. Description of first a	aid measures					
Inhalation: Remove	e to fresh air. If n	ot breathing,	administer artificia	al respiration. Con	tact physician.	
Skin contact: Wash sl	kin with soap an	d water. Conta	act physician if irr	itation persists.		
Eye contact: Rinse carrinsing.	autiously with wa	ater for severa	al minutes. Remov	ve contact lenses,	if present and easy to do. Continue	
Ingestion: Do not i	nduce vomiting.	Contact phys	ician immediately			
4.2. Most important sym	ptoms and effe	ects, both acu	ite and delayed			
Direct eye contact causes	eye irritation. H	igh vapor con	centrations cause		bry tract irritation and dizziness, ay defat the skin and cause skin	
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4.3. Indication of any imme	diate medical a	ttention and	d special tre	eatment need	led			
Treat symptoms.								
SECTION 5: FIRE-FIGHTIN	G MEASURES							
5.1. Extinguishing media								
Suitable extinguishing med	ia: Carbon D	ioxide, dry cł	nemical, foai	m or water foo	9			
Unsuitable extinguishing m	edia: Water je	ets						
5.2. Special hazards arising	from the subs	tance or mi	xture					
None								
5.3. Advice for firefighters								
Cool exposed containers with	water. Recomn	nend Firefigh	nters wear se	elf-contained	breathing a	oparatus.		
Flammability Classification	: -	-						
HAZCHEM Emergency Action	on Code: 2	Ζ						
SECTION 6: ACCIDENTAL								
6.1. Personal precautions, p		-		-				
Utilize exposure controls and		tion as spec	ified in Secti	on 8.				
6.2. Environmental Precaut								
Keep out of sewers, streams	-							
6.3. Methods and material f			• •					
Scoop up and transfer to a su		for disposal.						
6.4. Reference to other sect	ions							
Refer to section 13 for dispos	al advice.							
SECTION 7: HANDLING AN 7.1. Precautions for safe ha								
Avoid prolonged or repeated	-		o controle or	d porconal p	rotaction ac	coocified in C	oction 9	
7.2. Conditions for safe sto		-		iu personai pi	lotection as	specified in 2		
	rage, including	any incom	patibilities					
Store in a cool, dry area.								
7.3. Specific end use(s)								
No special precautions.								
SECTION 8: EXPOSURE CO	ONTROLS/PER	SONAL PRO	DTECTION					
8.1. Control parameters								
Occupational exposure limi			100				ALICTO	
Ingredients	ppm	NPEL ¹ mg/m ³	ppm	H TLV ² mg/m ³	ppm	WEL ³ mg/m ³	ppm	ALIA ES⁴ mg/m³
Oil mist, mineral	-	5	-	5 (inhal)	-	-	-	5
Aluminum	(total) (resp)	15 5	-	1 (resp)	-	10 (inhal) 4 (resp)	-	10
Naphtha (petroleum), hydrotreated heavy	(icsp) –	_	_	-	-	- (icsp)	_	-
Methanol	200	260	200 STEL: 250	262 328	200 STEL: 250	266 333	200 STEL: 250	262 328
Copper	(as Cu)	1 0.2 (fume)	(as Cu)	1 0.2 (fume)	(as Cu)	1 2 (STEL) 0.2 (fume)	(as Cu)	1 0.2 (fume)
Graphite	-	5 (resp)	-	2 (resp)	-	10 (inhal) 4 (resp)	-	3
Silicon Dioxide	-	80/ %SiO ₂	-	10 (inhal) 3 (resp)	-	6 (inhal) 2.4 (resp)	-	2 (resp)

¹ United States Occupational Health & Safety Administration permissible exposure limits.

² American Conference of Governmental Industrial Hygienists threshold limit values.

³ EH40 Workplace exposure limits, Health & Safety Executive

4 Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

8.2. Exposure controls

8.2.1. Engineering measures

No special requirements. If exposure limits are exceeded, provide adequate ventilation.

8.2.2. Individual protection measures

Respiratory protection: Not normally needed. If exposure limits are exceeded, use approved organic vapor respirator (e.g., EN filter type A/P2).

Protective gloves: Chemical resistant gloves (e.g. neoprene, nitrile).

Eye and face protection: Safety glasses

Other:

None 8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Colour Initial boiling point Melting point % Volatile (by volume) Flash point Method Viscosity Autoignition temperature Decomposition temperature	paste gray not determined not determined 5.6% 85°C (185°F) PM Closed Cup 800-2000K cps @25°C Unknown no data available	Odour Odour threshold Vapour pressure @ 20°C % Aromatics by weight pH Relative density Weight per volume Coefficient (water/oil) Vapour density (air=1) Rate of evaporation (ether=1)	mild odor not determined 22.3 not applicable 1.3 kg/l 10.8 lbs/gal. < 1 > 1 < 1
Upper/lower flammability or explosive limits	not determined	Solubility in water	negligible
Flammability (solid, gas) Explosive properties	not applicable not applicable	Oxidising properties	not applicable

9.2. Other information

None

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Refer to sections 10.3 and 10.5.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

Open flames, heat, sparks and red hot surfaces.

10.5. Incompatible materials

Strong acids, bases and strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Primary route of exposure Inhalation, skin and eye contact. Personnel with pre-existing skin and lung disorders are generally under normal use: aggravated by exposure.

Acute toxicity -

Oral:				
	Substance	Test	2969	
	Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rat	> 3000 mg/kg, estimated	
	Naphtha (petroleum), hydrotreated heavy	LD50, rat	> 15000 mg/kg	
	Methanol	Human lethal dose	143 mg/kg (RTECS)	
Dermal:				
	Substance	Test	Result	
	Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rat	> 3000 mg/kg, estimated	
	Methanol	LDLo, monkey	393 mg/kg (IUCLID)	
	Naphtha (petroleum), hydrotreated heavy	LD50, rabbit	> 3160 mg/kg	
Inhalation:	High vapor concentrations cause eye and other central nervous system effects.	d respiratory tract irritation a	and dizziness, headache and	
	Substance	Test	Result	
	Distillates (petroleum), hydrotreated heavy naphthenic	rat, 4 hours	> 5 mg/l, estimated	
	Methanol	LCLo, monkey	1.3 mg/l (IUCLID)	
Serious eye damage/ irritation:	defat the skin and cause dermatitis. Distillates (petroleum), hydrotreated heav	vy naphthenic: May be irrita	ting to eyes.	
Respiratory or skin sensitisation:	Distillates (petroleum), hydrotreated hear sensitizing based on data from similar pro classification criteria are not met.			
Germ cell mutagenicity:	Distillates (petroleum), hydrotreated heav and has a negative potential for tumor de Assay, with a Mutagenic Index of less that criteria are not met.	evelopment based on result	s from the Modified Ames	
Carcinogenicity:	As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or Regulation (EC) No 1272/2008.			
Reproductive toxicity:	Methanol, Distillates (petroleum), hydrotreated heavy naphthenic: based on available data, the classification criteria are not met.			
STOT-single exposure:	Methanol: Causes damage to organs. Di- on available data, the classification criter		reated heavy naphthenic: based	
STOT-repeated exposure:	Distillates (petroleum), hydrotreated heav classification criteria are not met.	vy naphthenic, Methanol: ba	ased on available data, the	
Aspiration hazard:	Based on available data, the classificatio	n criteria are not met.		
Other information:	None known			
SECTION 12: ECOLOGICA	L INFORMATION			

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

12.1. Toxicity

Distillates (petroleum), hydrotreated heavy naphthenic: available data indicate this product is not acutely toxic. Methanol: 96 h LC50 (fish) = 15400 – 29400 mg/l.

12.2. Persistence and degradability

Mineral oil, biodegradation: 31% (OECD 301F, 28 days). Copper, Aluminum, Graphite: inorganic substances. Methanol: expected to degrade rapidly in air.

12.3. Bioaccumulative potential

Distillates (petroleum), hydrotreated heavy naphthenic, Methanol: not expected to bioaccumulate.

12.4. Mobility in soil

Paste. Solubility in water: negligible. Oil products, improperly released to the environment, can cause ground and water pollution. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Distillates (petroleum), hydrotreated heavy naphthenic: large volumes may penetrate soil and contaminate groundwater. Methanol: expected to have very high mobility in soils.

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Incinerate absorbed material with a properly licensed facility. Material can be stabilized/solidified or incinerated for disposal. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is classified as a hazardous waste according to 2008/98/EC.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number			
ADR/RID/ADN/I	/IDG/ICAO:	NOT APPLICA	BLE
TDG:		NOT APPLICA	BLE
US DOT:		NOT APPLICA	BLE
14.2. UN proper shippi	ng name		
ADR/RID/ADN/I	/IDG/ICAO:	NON-HAZARD	OUS, NON REGULATED
TDG:		NON-HAZARD	OUS, NON REGULATED
US DOT:		NON-HAZARD	OUS, NON REGULATED
14.3. Transport hazard	class(es)		
ADR/RID/ADN/I	IDG/ICAO:	NOT APPLICA	BLE
TDG:		NOT APPLICA	BLE
US DOT:		NOT APPLICA	BLE
14.4. Packing group			
ADR/RID/ADN/I	IDG/ICAO:	NOT APPLICA	BLE
TDG:		NOT APPLICA	BLE
US DOT:		NOT APPLICA	BLE
14.5. Environmental ha			
NOT APPLICABLE			
14.6. Special precaution	ons for user		
14.6. Special precaution			
14.6. Special precaution		nnex II of MAF	RPOL73/78 and the IBC Code
14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE	according to A	nnex II of MAF	RPOL73/78 and the IBC Code
14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk	according to A	nnex II of MAF	RPOL73/78 and the IBC Code
14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE	according to A	nnex II of MAF	RPOL73/78 and the IBC Code
 14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information 	according to A		RPOL73/78 and the IBC Code
14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA	according to A	ATION	RPOL73/78 and the IBC Code
14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA	according to A	ATION	
14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA 15.1. Safety, health and	according to An n ATORY INFORM d environmental	ATION	
14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA 15.1. Safety, health and 15.1.1. EU regulations	according to An N ATORY INFORM, d environmental Fitle VII: Not ap	ATION regulations/le	
 14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA 15.1. Safety, health and 15.1.1. EU regulations Authorisations under The second sec	according to An N ATORY INFORM d environmental Fitle VII: Not ap e VIII: None	ATION regulations/le	
 14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA 15.1. Safety, health and 15.1.1. EU regulations Authorisations under Title 	according to An ATORY INFORM, d environmental Fitle VII: Not ap e VIII: None None	ATION regulations/le	
14.6. Special precautio NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA 15.1. Safety, health and 15.1.1. EU regulations Authorisations under Titl Other EU regulations:	according to An N ATORY INFORM d environmental Fitle VII: Not ap e VIII: None None tions	ATION regulations/le	
14.6. Special precautio NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA 15.1.1. Safety, health and 15.1.1. EU regulations Authorisations under Titl Other EU regulations: 15.1.2. National regula US EPA SARA TITLE II 312 Hazards:	according to An N ATORY INFORM d environmental Fitle VII: Not ap e VIII: None None tions	ATION regulations/le	
 14.6. Special precaution NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA 15.1.1. Safety, health and 15.1.1. EU regulations Authorisations under Title Other EU regulations: 15.1.2. National regulation 	according to An ATORY INFORM d environmental Fitle VII: Not ap e VIII: None None tions	ATION regulations/le	
14.6. Special precautio NOT APPLICABLE 14.7. Transport in bulk NOT APPLICABLE 14.8. Other information NOT APPLICABLE SECTION 15: REGULA 15.1. Safety, health and 15.1.1. EU regulations Authorisations under Titl Other EU regulations: 15.1.2. National regula US EPA SARA TITLE II 312 Hazards:	according to An ATORY INFORM, d environmental Fitle VII: Not ap e VIII: None None tions 1 313 Chemical	ATION regulations/le oplicable s:	egislation specific for the substance or mixture

Other national regulat	ons: None				
15.2. Chemical safety assessment					
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.					
SECTION 16: OTHER	SECTION 16: OTHER INFORMATION				
and acronyms: ADF ATE BCF CLP ES: GHS ICAC IMD LC5 LD5 LOE N/A: NA: NA: NA: NA: NA: NA: NA: NA: NA: N	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road Acute Toxicity Estimate Bioconcentration Factor Classification Labelling Packaging Regulation (1272/2008/EC) Exposure Standard Globally Harmonized System Di International Civil Aviation Organization S: International Civil Aviation Organization S: International Civil Aviation Organization Di International Civil Aviation Organization S: International Covernet and the state of the state				
Key literature reference and sources for data:	es Commission de la santé et de la sécurité du travail (CSST) Chemical Classification and Information Database (CCID) European Chemicals Agency (ECHA) - Information on Chemicals Hazardous Substances Information System (HSIS) National Institute of Technology and Evaluation (NITE) Swedish Chemicals Agency (KEMI) U.S. National Library of Medicine Toxicology Data Network (TOXNET)				
Procedure used to de	ive the classification for mixtures according to Regulation (EC) No 1272/2008:				
Classification	Classification procedure				
Flam. Liq. 4, H227	On basis of test data				
Relevant H-statements	 H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H228: Flammable solid. H261: In contact with water releases flammable gases. 				
	H301: Toxic if swallowed. H304: May be fatal if swallowed and enters ainways				

H304: May be fatal if swallowed and enters airways.

- H311: Toxic in contact with skin.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H331: Toxic if inhaled.
- H336: May cause drowsiness or dizziness.
- H370: Causes damage to organs.
 - H372D: Causes damage to the central nervous system through prolonged or repeated exposure. H411: Toxic to aquatic life with long lasting effects.
- H411. TOXIC TO AQUALIC THE WITH TONY TASK

Hazard pictogram names: None

Changes to the SDS in this revision: Sections 2.1, 2.2, 3, 5.1, 8, 11, 12.1, 12.2, 12.3, 12.4, 16.

Revision date: 15 October 2015

Further information: None

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.